

MANY EXAMPLES
OF THE USE OF
Decorative Concrete Stone

ECONOMY CONCRETE CO.

NEW HAVEN, CONN.

FIFTH EDITION

1917



34885

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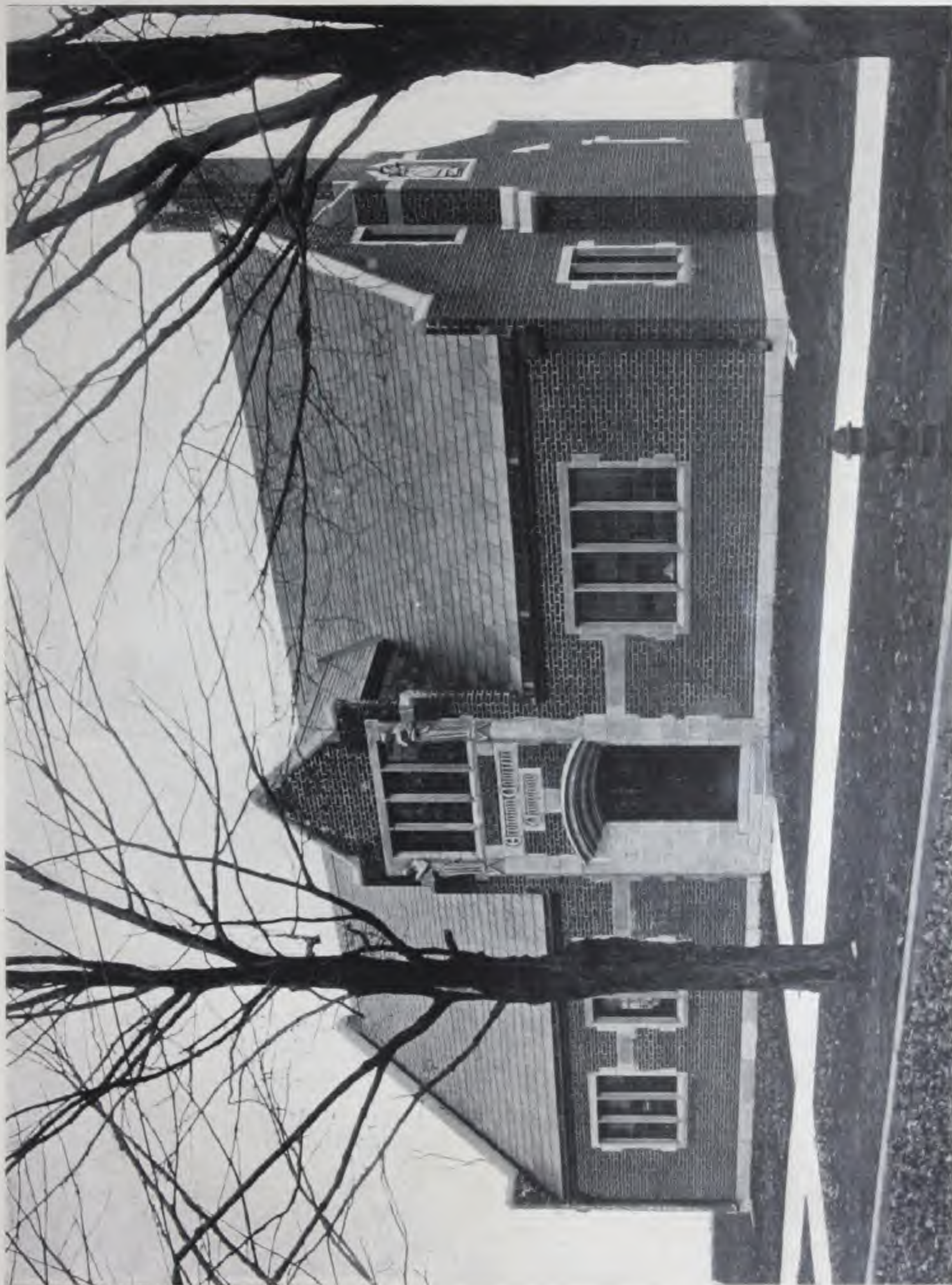
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CCA



LEE LAWRIE
SCULPTOR

OFFICE BUILDING OF THE ECONOMY CONCRETE CO., NEW HAVEN, CONN.

CRAM GOODHUE & FERGUSON, NEW YORK
ARCHITECTS

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CCA



DETAIL, OFFICE BUILDING, ECONOMY CONCRETE CO.
Gable over Entrance.

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CCA



ARCHITECTURE.



SCULPTURE.



COAT OF ARMS.

DETAIL, OFFICE BUILDING, ECONOMY CONCRETE CO.

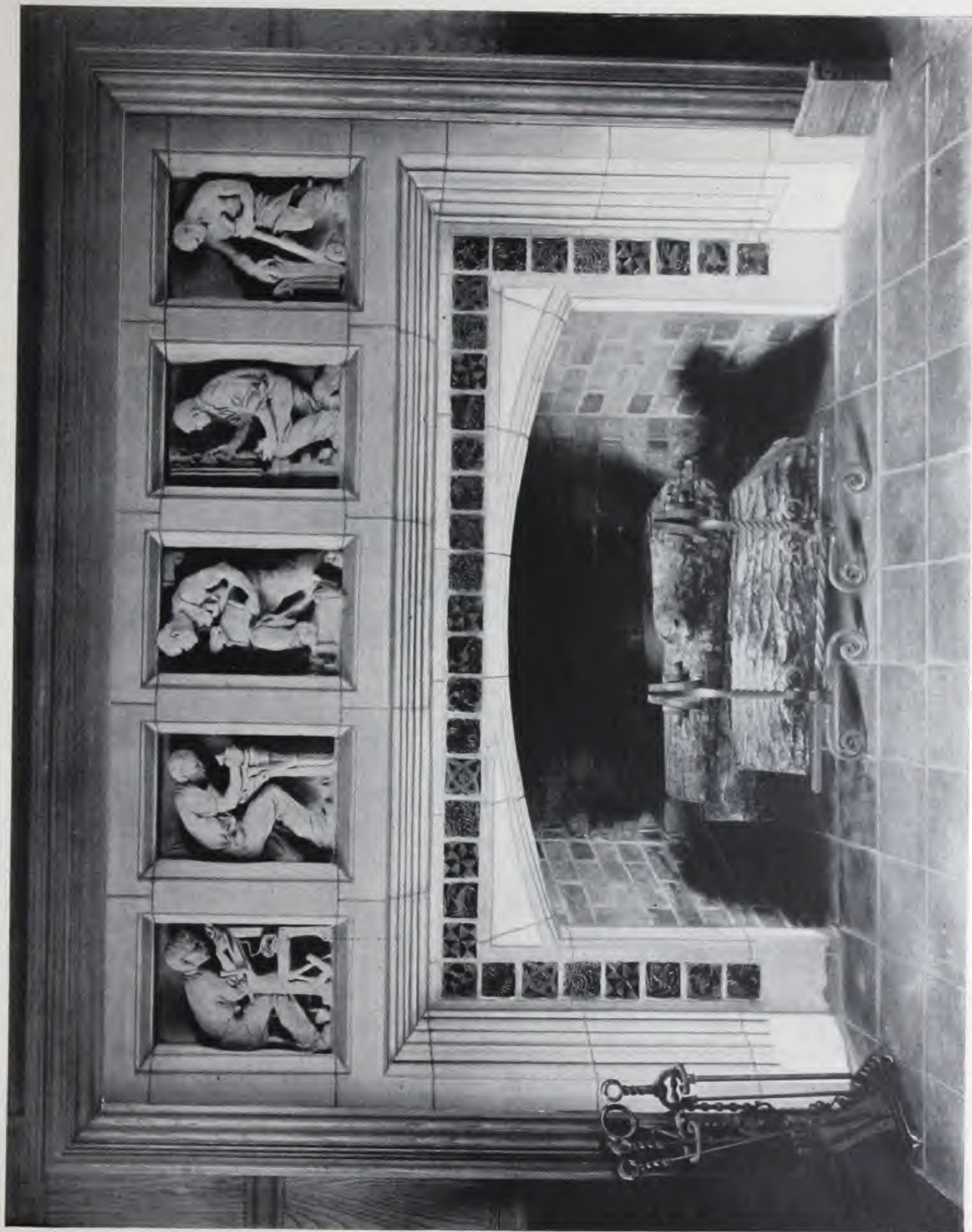
[In their selection of the motto on the Coat of Arms the architects who have used the material for many years have given their impressions of its quality.]

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CCA

THE DRAFTING ROOM. THE PATTERN SHOP. THE CASTING SHOP. THE SCULPTOR. TRANSPORTATION.



FIREPLACE, OFFICE BUILDING, ECONOMY CONCRETE CO.
A fine example of our yellow concrete for interior work.

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CCA



REYNOLDS & WALSH
BROCKTON, MASS.

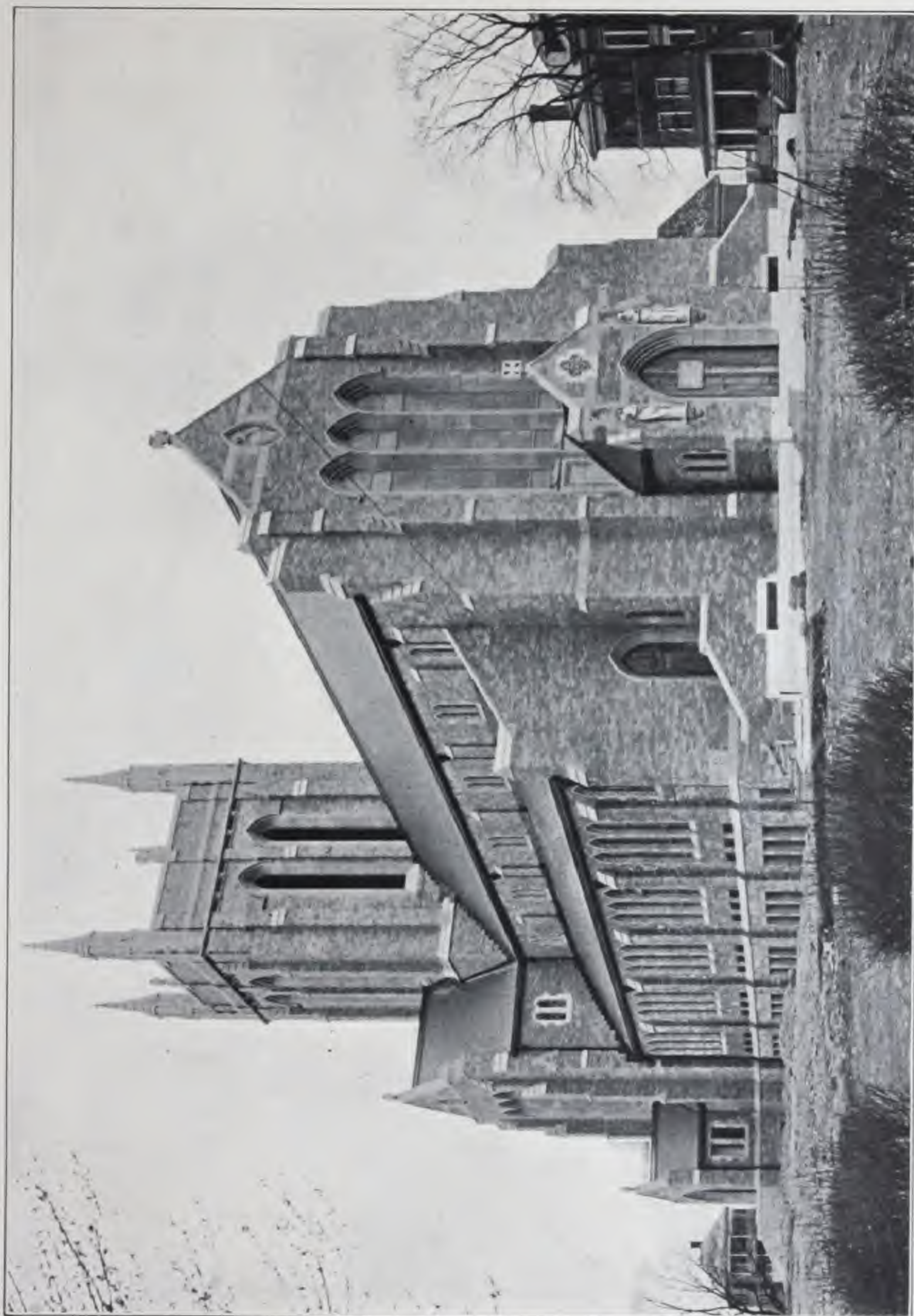
St. Edward's Church, Mattello, Brockton, Mass.

STEPS, CHIEKS AND BASE COURSE OF ARTIFICIAL GRANITE, BALANCE OF TRIM OF HIGH NO. 4 GRANITE.

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CCA



St. Edward's Church, Montello.

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CCA



HENRY VAUGHAN
ARCHITECT

Church of the Redeemer, Chestnut Hill, Boston, Mass.

OUR No. 1 GREY STONE USED FOR ALL INTERIOR AND EXTERIOR TRIM, INCLUDING BASE COURSE AND STEPS.

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CCA



Church of the Redeemer.

TRACERY WINDOWS, PIERS, ARCHES AND CORNICE.

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CCA



Church of the Redeemer.

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CCA



Church of the Mediator, Kings Bridge, New York City.

HENRY VAUGHAN
ARCHITECT

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CCA



Church of the Mediator.

NAVE WAS BUILT IN 1911. TOWER AND CHANCEL BUILT IN 1913.

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CCA



Church of the Mediator, Kings Bridge, New York City.

HENRY VAUGHAN
ARCHITECT

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CCA

B. G. GOODHUE, CRAM, GOODHUE & FERGUSON, NEW YORK
ARCHITECTS

Crypt, Chapel of the Intercession, Trinity Parish, 155th Street and Broadway, New York City.

ASHLER, COLUMNS, RIBS AND VAULT FILLING OF CONCRETE STONE

*Designed by
B. G. Goodhue & Cram*



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CCA



CRAM, GOODHUE & FERGUSON, NEW YORK
ARCHITECTS

St. John's Church, Farmington Avenue, West Hartford, Conn.

ASHLER IS OF TRAP ROCK, AND ALL TRACERY AND TRIM OF CONCRETE STONE. BUILT IN 1908.

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CCA



St. John's Church.

VIEW FROM REAR

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CCA



St. John's Church.

ALL INTERIOR COLUMNS, ARCHES AND STONE TRIM OF CONCRETE STONE

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CCA



CRAM, GOODHUE & FERGUSON, NEW YORK
ARCHITECTS

Chapel of St. Paul's Church, New Haven, Conn.

AN OLD BUILDING WITH NEW TRACERY WINDOWS, VESTIBULE AND BELFRY OF CONCRETE STONE.

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CCA



THE ARK OF THE COVENANT.



THE VESSEL OF HONOR.



THE MYSTICAL ROSE.



THE MIRROR OF JUSTICE.

CORBELS, INTERIOR ST. PAUL'S CHAPEL.

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CCA



CHAM. JOSEPH & FERGUSON, NEW YORK
ARCHITECTS

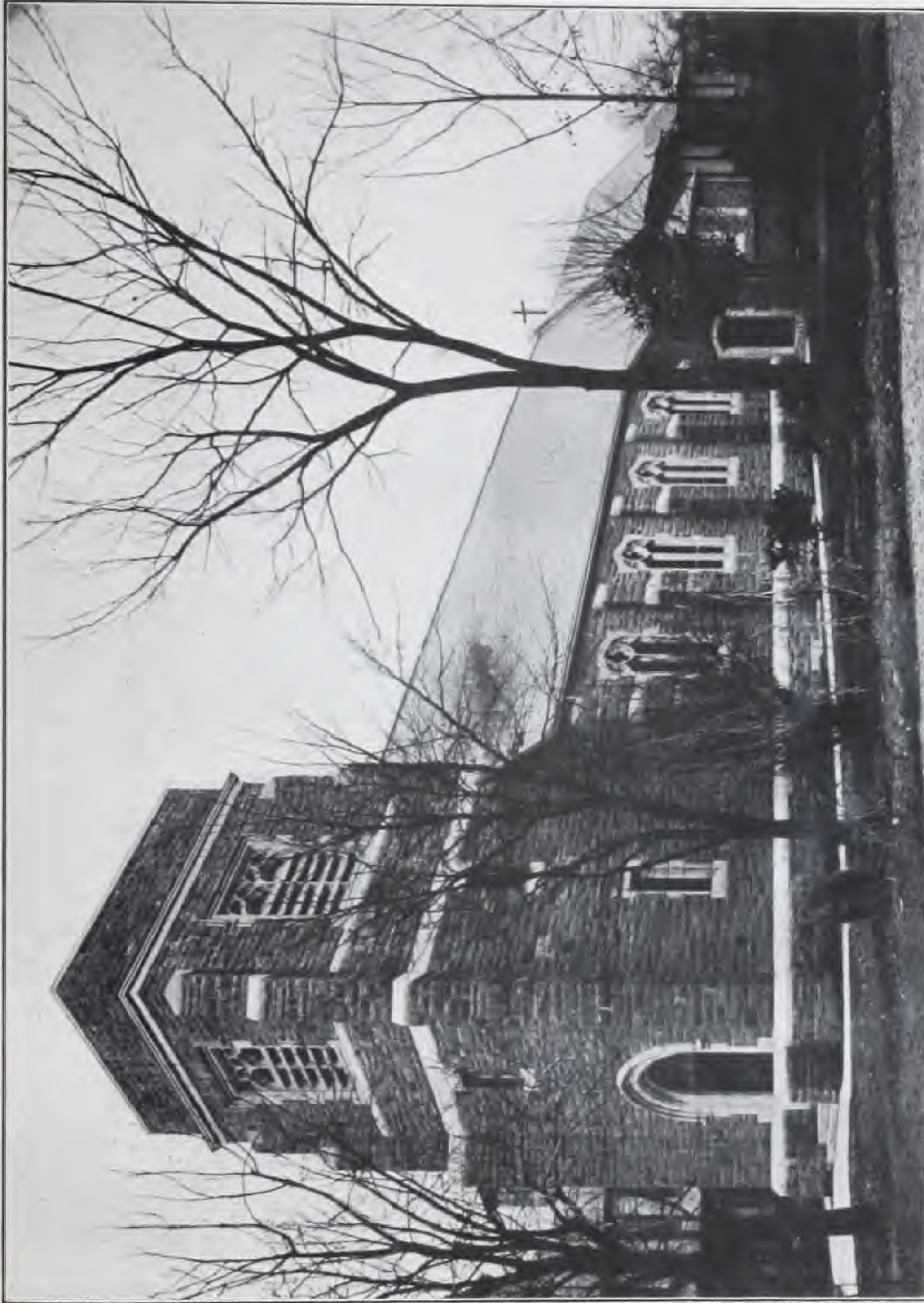
Christ Church, West Haven, Conn.

Built in 1906; of local trap rock, all interior arches, columns and all exterior trim and tracery of concrete stone.

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CCA



GRAM, GOODHUE & FERGUSON, NEW YORK
ARCHITECTS

St. Philip's Church, Durham, N. C.

BUILT OF LOCAL STONE ASHLER, IN 1906, WITH CONCRETE STONE TRIM.

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CCA



CRAM, GOODHUE & FERGUSON, NEW YORK
ARCHITECTS

First Presbyterian Church, Far Rockaway, N. Y.

MEMORIAL TO HON. RUSSELL SAGE.

Built in 1908, of brick, all trim, including entrances and tracery, of concrete stone.

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CCA



Russell Sage Memorial Interior.

ALL STONE TRIM OF CONCRETE STONE.

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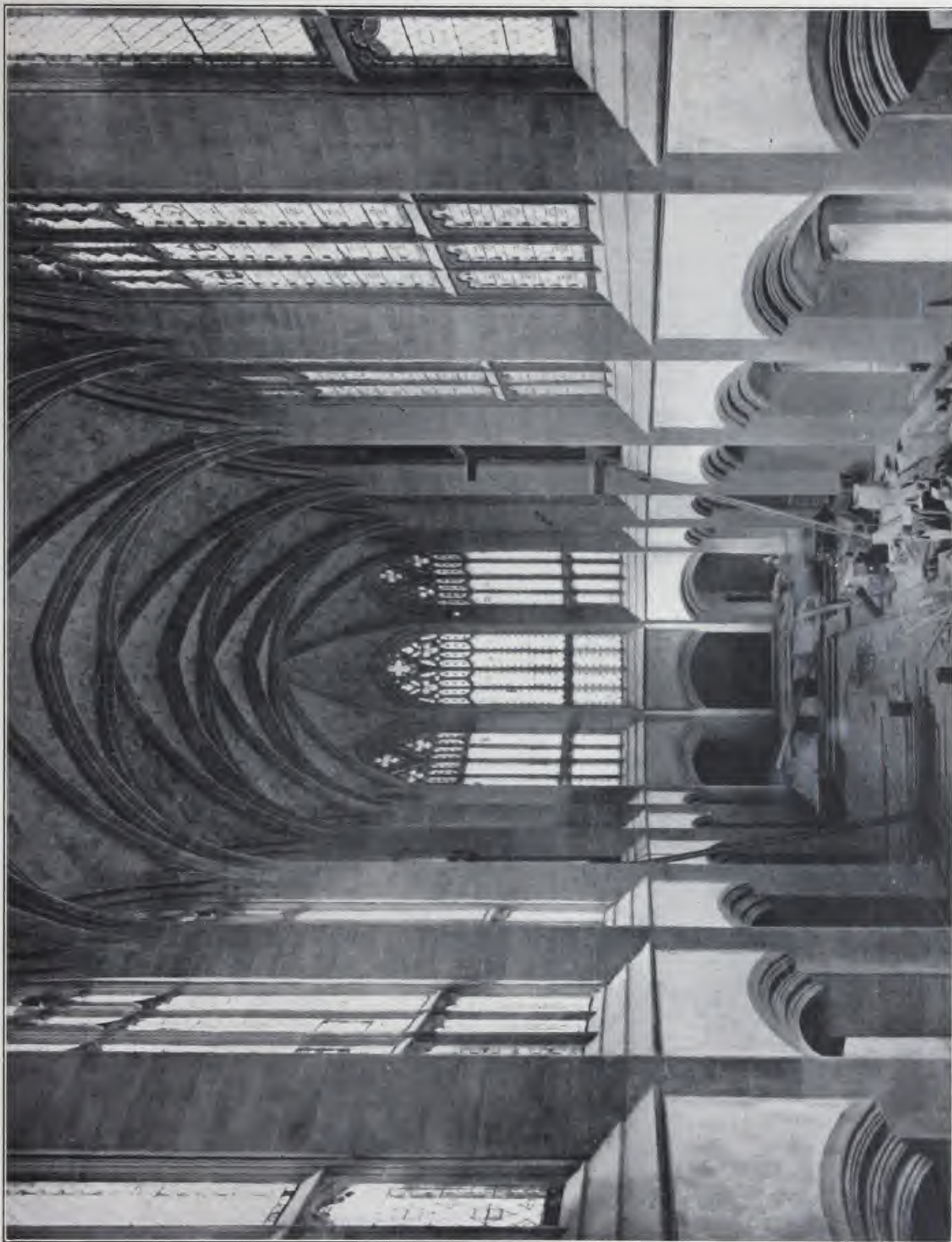
Russell Sage Memorial.

ALL TRACERY OF CONCRETE STONE.

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CCA



GRAM, GOODHUE & FERGUSON, NEW YORK
ARCHITECTS

South Church, 35th Street and Park Avenue, New York City.

(February, 1911.)

NOTHING BUT CONCRETE STONE FOR INTERIOR AND TRACERY, INCLUDING RIBS AND VERY DIFFICULT CONOIDS.

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CCA



South Church.

EAST WINDOW. THIS WINDOW OF CONCRETE STONE.

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CCA



BERTRAM GROSVENOR GOODHUE
ARCHITECT

First Congregational Church, Montclair, N. J.

AN ECHOLESS INTERIOR.

This interior is of R. Guastavino Co.'s acoustical tiles and blocks, but all of the piers, arches, columns, ribs and interior trim are of our stone of a special mixture and Mr. Goodhue writes in regard to the tile:

"To the best of my knowledge and belief, no such acoustical result has ever been achieved before, except by accident."

As our stone forms an appreciable percentage of the surface a portion of this satisfactory acoustical result is naturally claimed by us.

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CCA



BRAZER & ROBB
ARCHITECTS

St. James's Church, Long Branch, N. J.

ALL EXTERIOR AND INTERIOR TRIM AND TRACERY WINDOWS.

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CCA



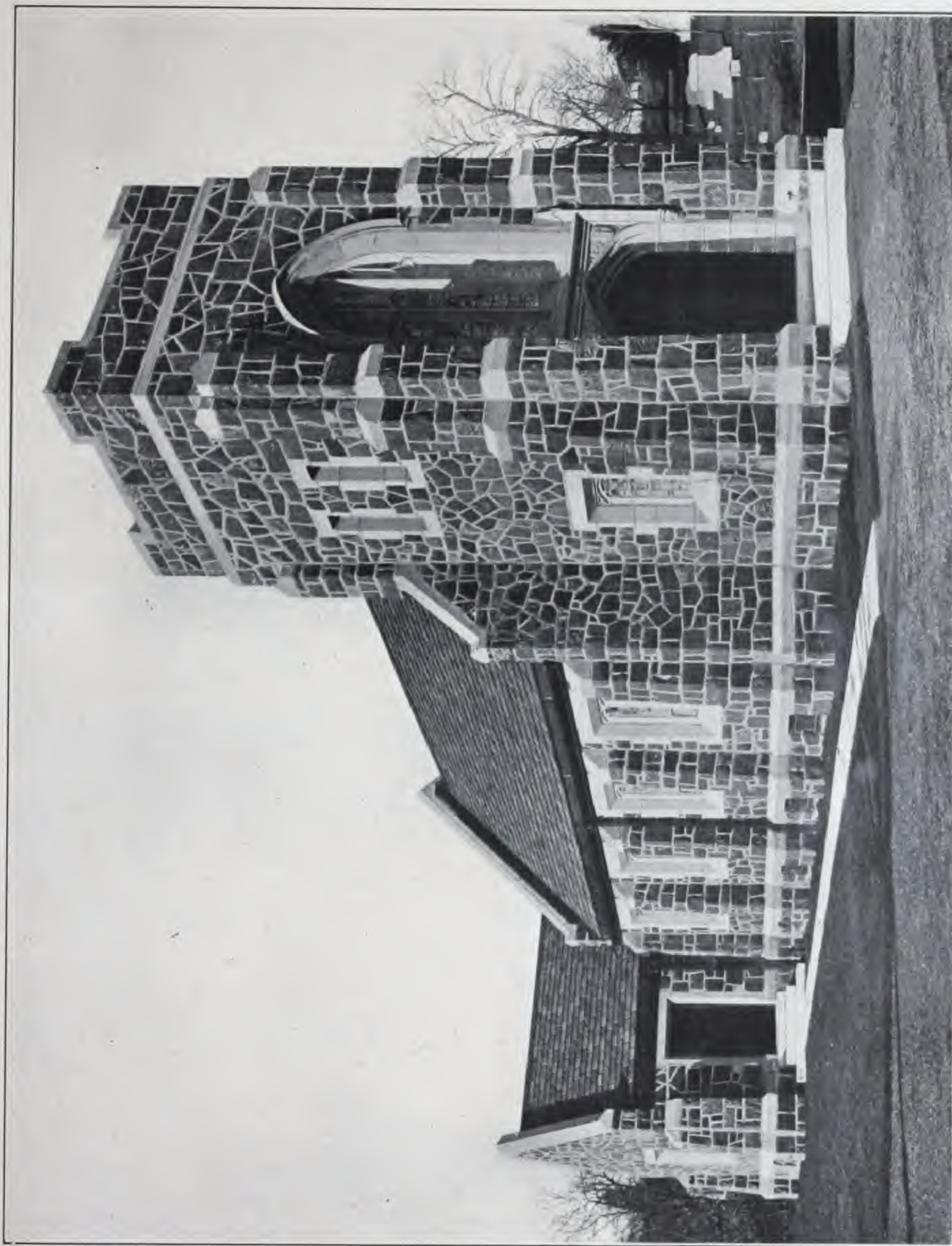
BRADY & HOBBS
ARCHITECTS

Interior, St. James's Church, Long Branch, N. J.

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CCA



CHARLES SCRANTON PALMER
ARCHITECT

Walter Hubbard Memorial Chapel, Walnut Grove Cemetery, Meriden, Conn.

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CCA



GEORGE G. ADAMS
ARCHITECT

Lawrence Street Congregational Church, Lawrence, Mass.

ALL STONE TRIM AND TRACERY.

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CCA



CRAM, GOODHUE & FERGUSON, BOSTON
ARCHITECTS

Addition to Grace Church, Providence, R. I.

A fine sample of our No. 3 pink stone for all trim and tracery. The ashler is a very dark native stone.

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CCA



H. M. CONGDON & SON
ARCHITECTS

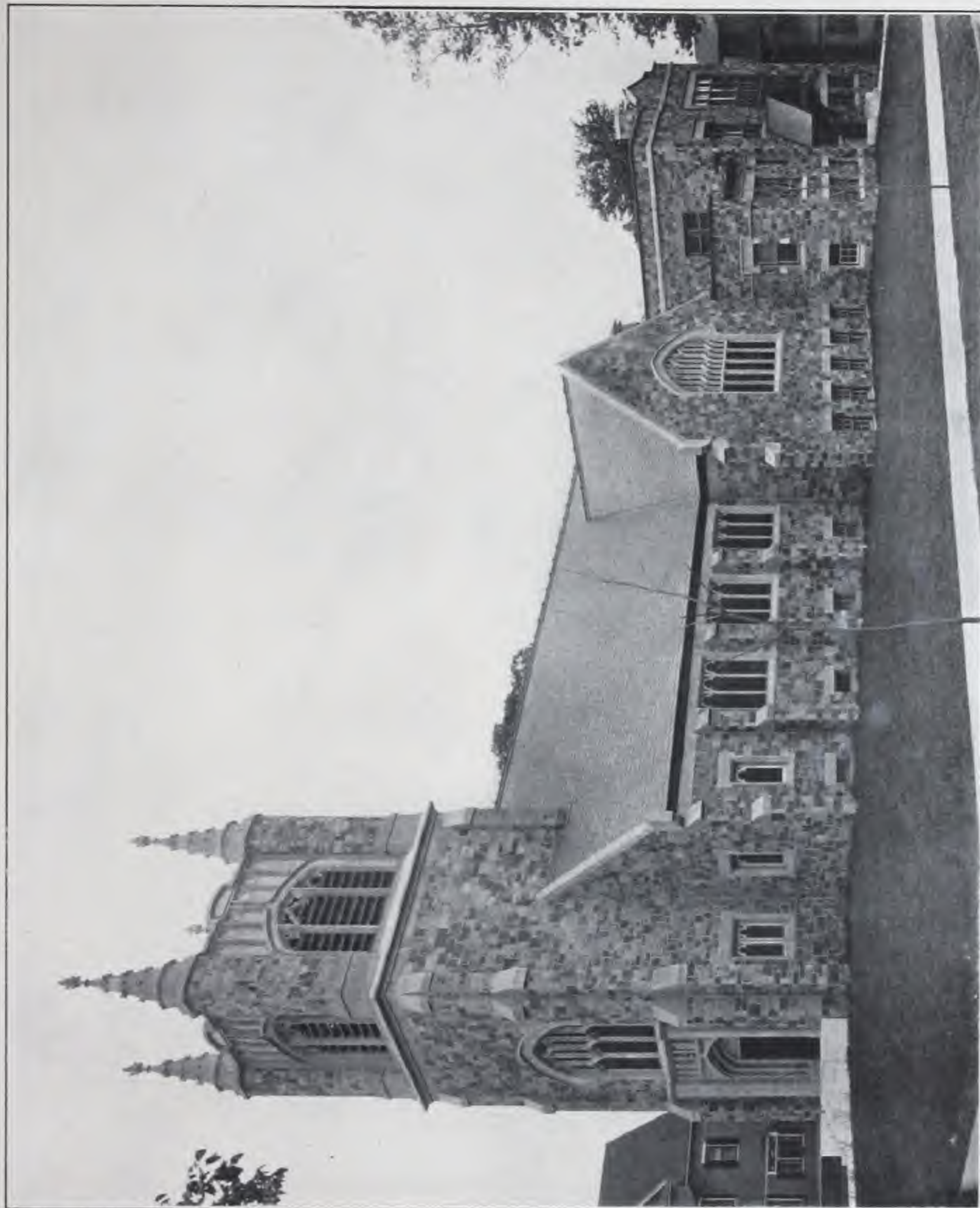
St. Paul's Church, Phillipsburg, Pa.

ALL EXTERIOR AND INTERIOR STONE TRIM AND TRACERY.

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CCA



E. C. & G. C. GARDNER
ARCHITECTS

Faith Congregational Church, Springfield, Mass.

ALL TRIMMING STONE AND TRACERY.

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CCA



JOHN T. COMES JOHN E. KAUZOR
ARCHITECTS

All Saints' Church, Etna, Pa., near Pittsburgh.

ORNAMENTAL PANEL IN VERY ELABORATE FRONT ENTRANCE.

This is a Romanesque Church with elaborate trim of our stone, but not photographed at time of this publication.



ERNEST GREENE
ARCHITECT

First Congregational Church, Mt. Vernon, N. Y.

ALL TRIM AND TRACERY.

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CCA



MURPHY, HINDLE & WRIGHT
ARCHITECTS

St. Patrick's Church, Providence, R. I.

ALL EXTERIOR TRIM INCLUDING VERY ELABORATE FRONT ENTRANCE.

Quantity, about 70,000 feet.

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CCA



WALTER F. FORTKING
ARCHTCT

St. Ann's Church, Woonsocket, R. I.

A BRICK CHURCH WITH CONCRETE STONE TRIMMINGS.

Photograph poorly shows the elaborate trim—about 450 tons.

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CCA



First Presbyterian Church, Norfolk, Va.

FERGUSON, CALROW & TAYLOR
ARCHITECTS

BUILT IN 1910, USING CONCRETE STONE FOR ALL EXTERIOR AND INTERIOR TRIM AND TRACERY.

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CCA



First Presbyterian Church, Norfolk, Va.

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CCA



CARRERE & HASTINGS
T. E. BLAKE, ARCHITECTS

St. Mary's Church, Lawrence Street, New York.

Built in 1908; of brick with inch joints, and trim of concrete stone, using local red conglomerate, resulting in a warm shade of color.

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CCA



St. Mary's Church, New York.

INTERIOR OF CONCRETE MADE OF LOCAL CONGLOMERATE, GIVING WITH THE BRICK A VERY PLEASING EFFECT.

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CCA



Church of the Immaculate Conception, Tuckahoe, N. Y.

ASHLER OF TUCKAHOE MARBLE; ALL TRIM AND TRACERY OF CONCRETE STONE. BUILT IN 1908.

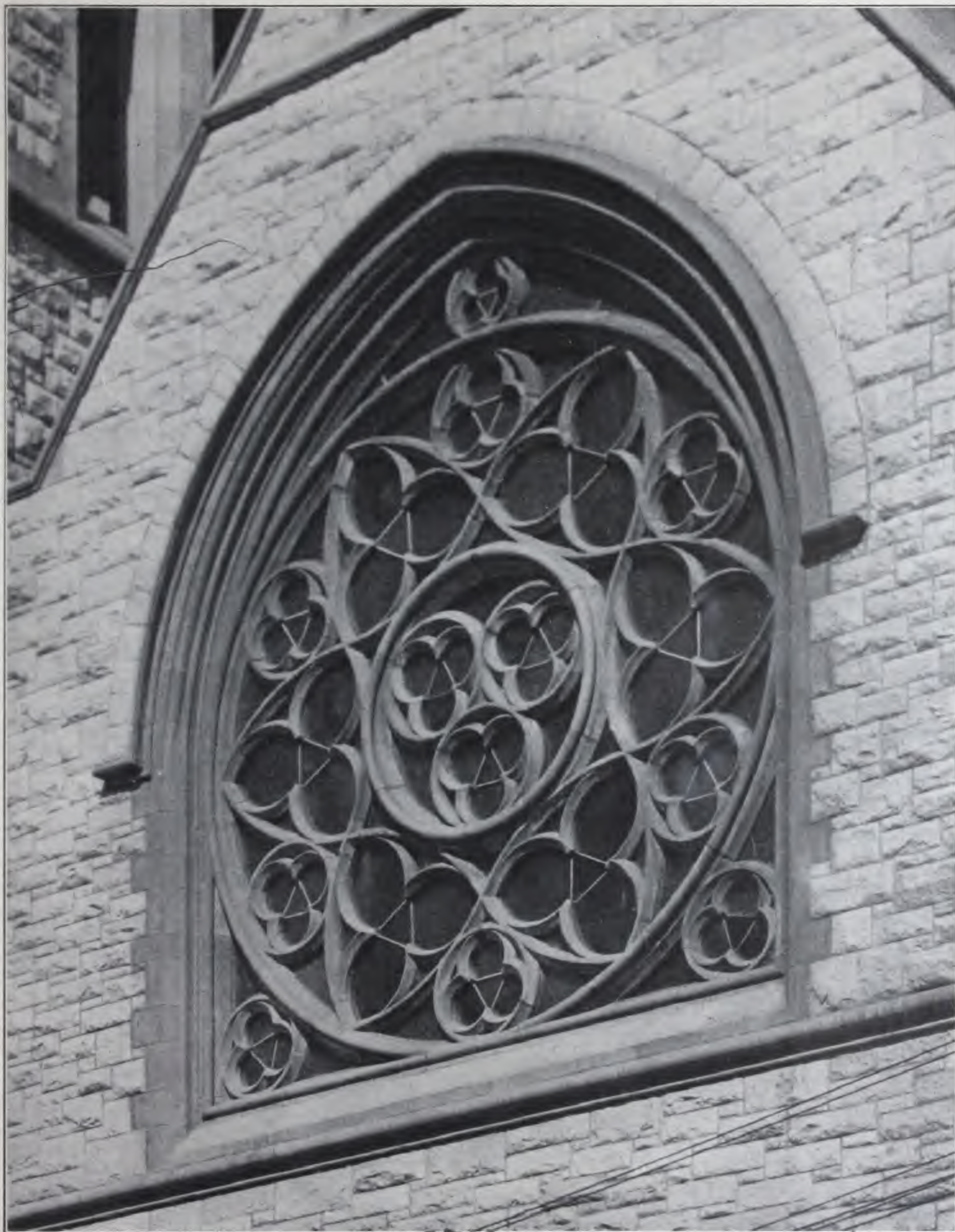
Mr. Duff has used our stone in eleven buildings.

THOMAS J. DUFF
ARCHITECT

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CCA



Church of the Immaculate Conception.

ROSE WINDOW TWENTY-FOUR FEET IN DIAMETER. AN EXCELLENT EXAMPLE OF CONCRETE STONE.

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CCA



St. Patrick's Church, Bridgeport, Conn.

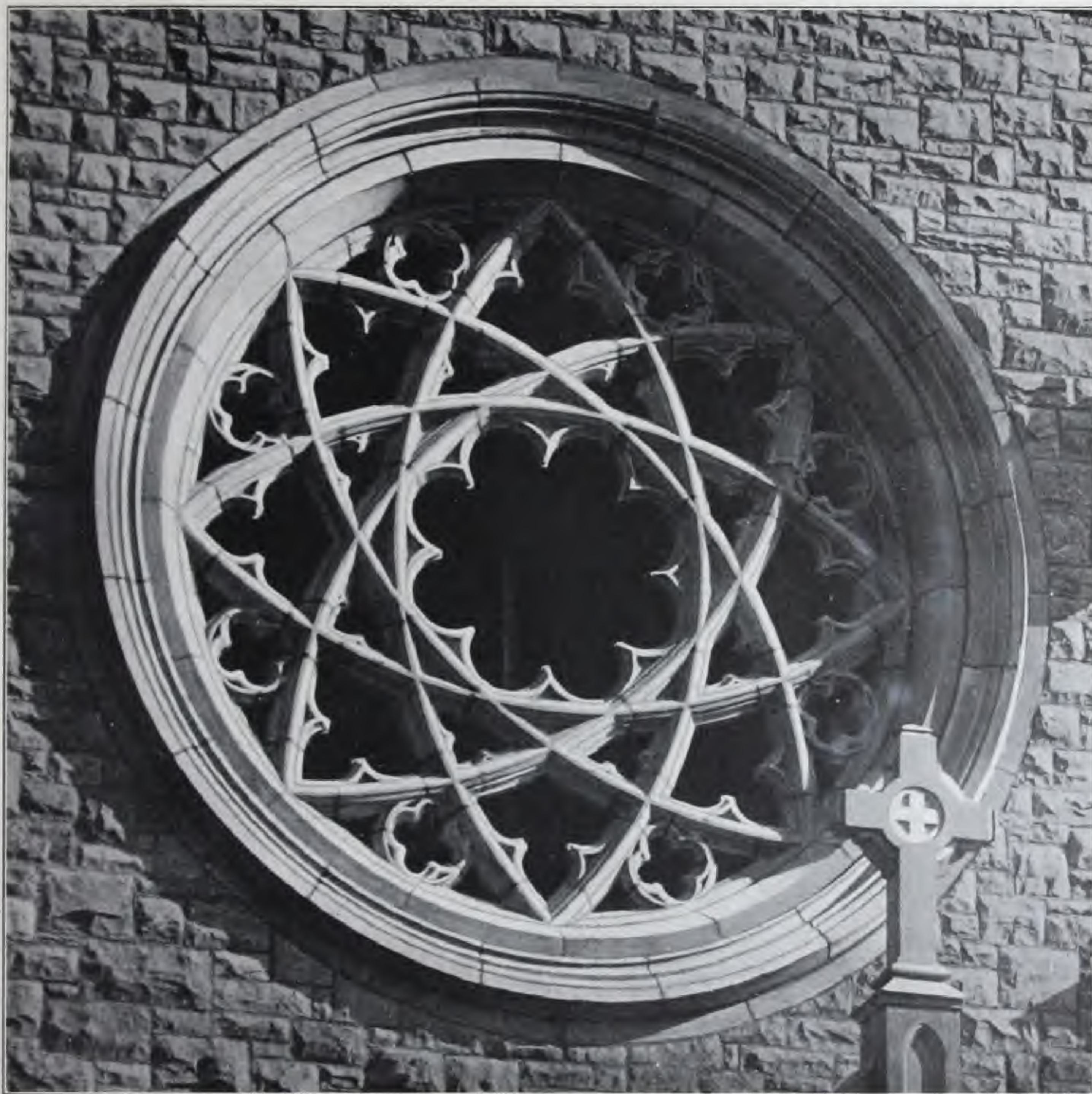
J. J. DWYER, ARCHITECT
J. J. McMAHON, ASSOCIATE

ASHLER IS OF VERMONT MARBLE; ALL EXTERIOR TRIM OF CONCRETE STONE.

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CCA



St. Patrick's Church, Bridgeport.

ROSE WINDOW OF CONCRETE STONE.

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CCA



St. Philip's Church, New York City.

TANDY & FOSTER
ARCHITECTS

Six of the thirty-two corbels supporting the trusses of the nave and aisle, made of white cement. All the exterior and interior trim, value over \$15,000, of our grey concrete stone.

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CCA



Congregation B'nai Jacob, New Haven, Conn.

BROWN & VON BEREN
ARCHITECTS

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CCA



MAGINNIS & WALSH
ARCHITECTS

RECITATION HALL, BOSTON COLLEGE, NEWTON HEIGHTS, BOSTON, MASS.

Ashlar of Brighton stone; all stone trim, including tracery, above the water table, of concrete stone. Built in 1910.

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CCA

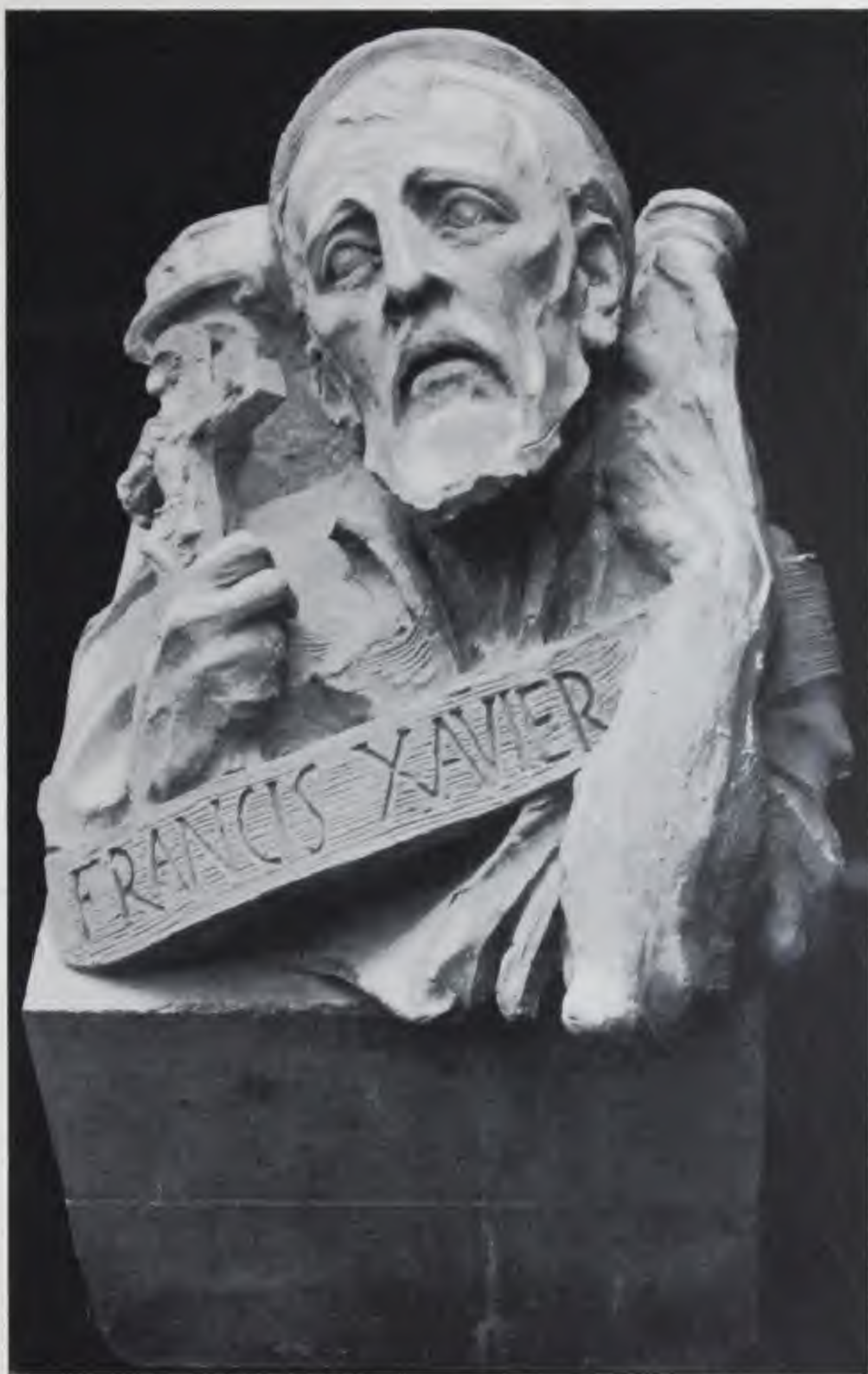


RECITATION HALL, NORTH ELEVATION.

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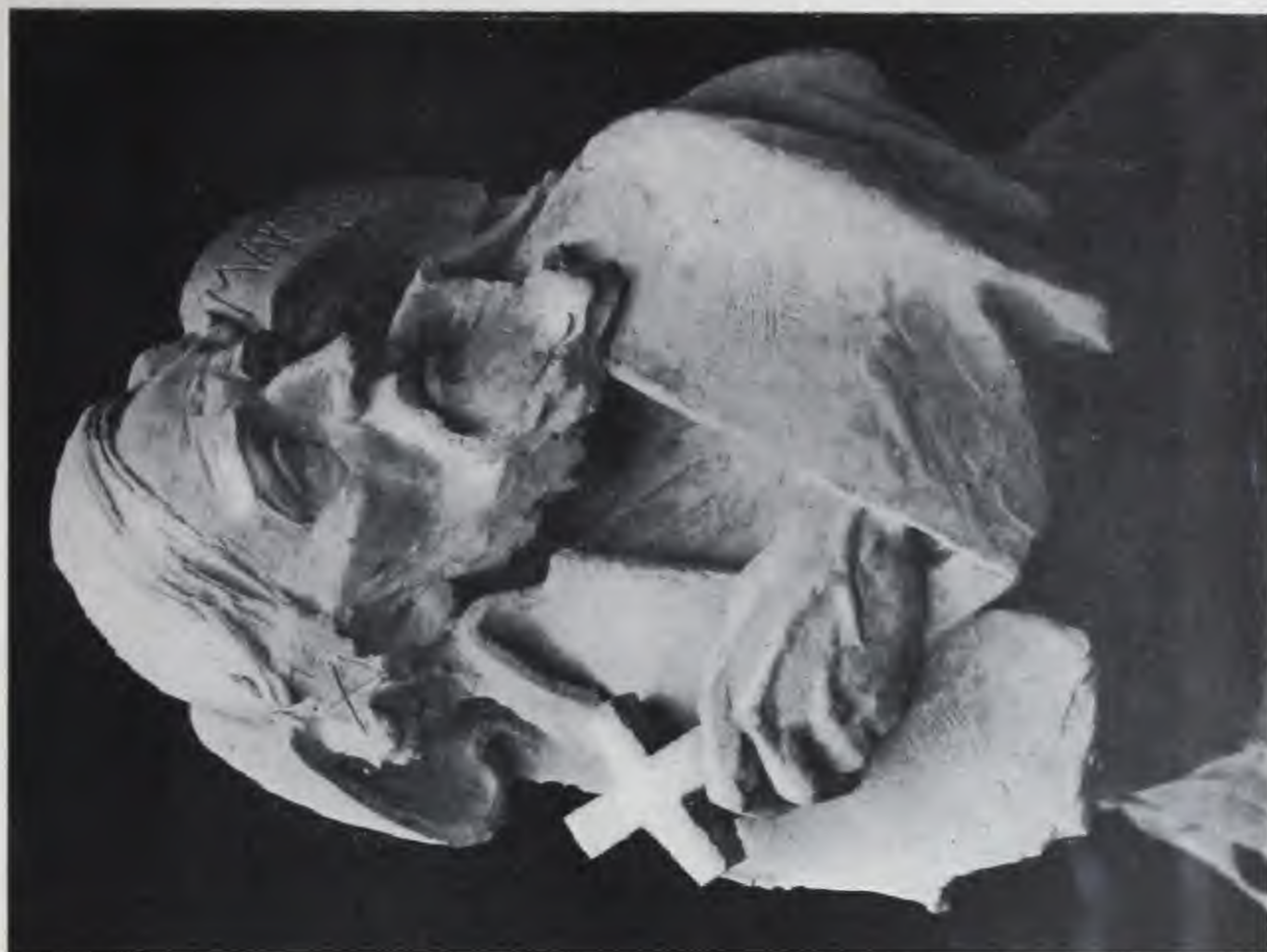


CORBEL, ASSEMBLY HALL (RECITATION HALL).

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CCA



CORBELS, ASSEMBLY HALL (RECITATION HALL).

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CORBELS, ASSEMBLY HALL (RECITATION HALL).

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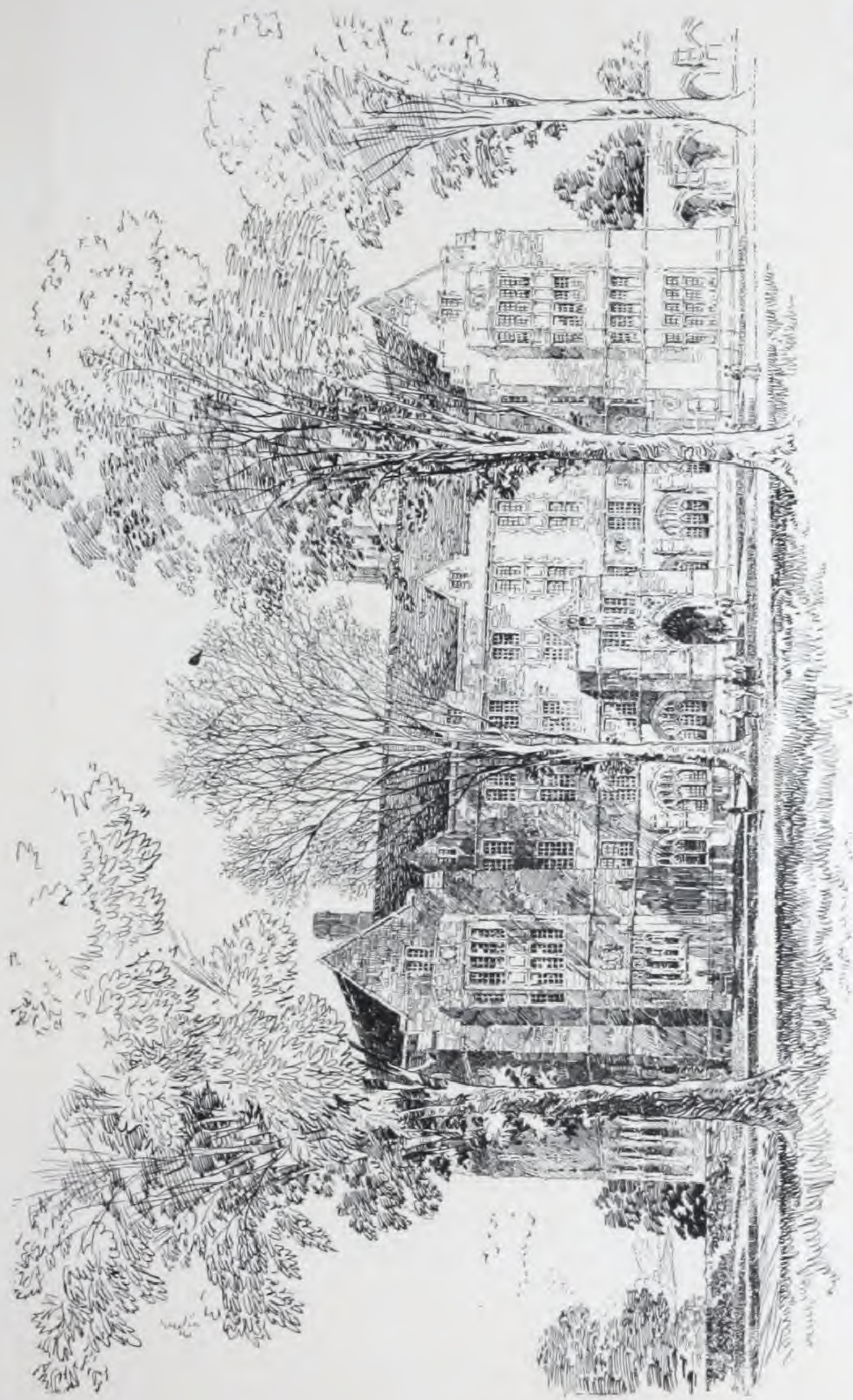


CORBELS, ASSEMBLY HALL (RECITATION HALL).

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CCA



MAGINNIS & WALSH
ARCHITECTS

ST. MARY'S HALL, BOSTON COLLEGE.

From architects' sketch.

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CCA



First RICHMOND COLLEGE (WOMEN'S COLLEGE) RICHMOND, VA.

ERAM, GOSCHKE & PEARSON, ARCHT.
 GEORGE & JENNINGS, RICHMOND
 1902-1903

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CCA



RICHMOND COLLEGE, MAIN ENTRANCE TO REFECTORY.

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CCA



RICHMOND COLLEGE, ENTRANCE TO ADMINISTRATION BUILDING.

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CCA



RICHMOND COLLEGE, SOUTH ELEVATION, ACADEMIC BUILDING.

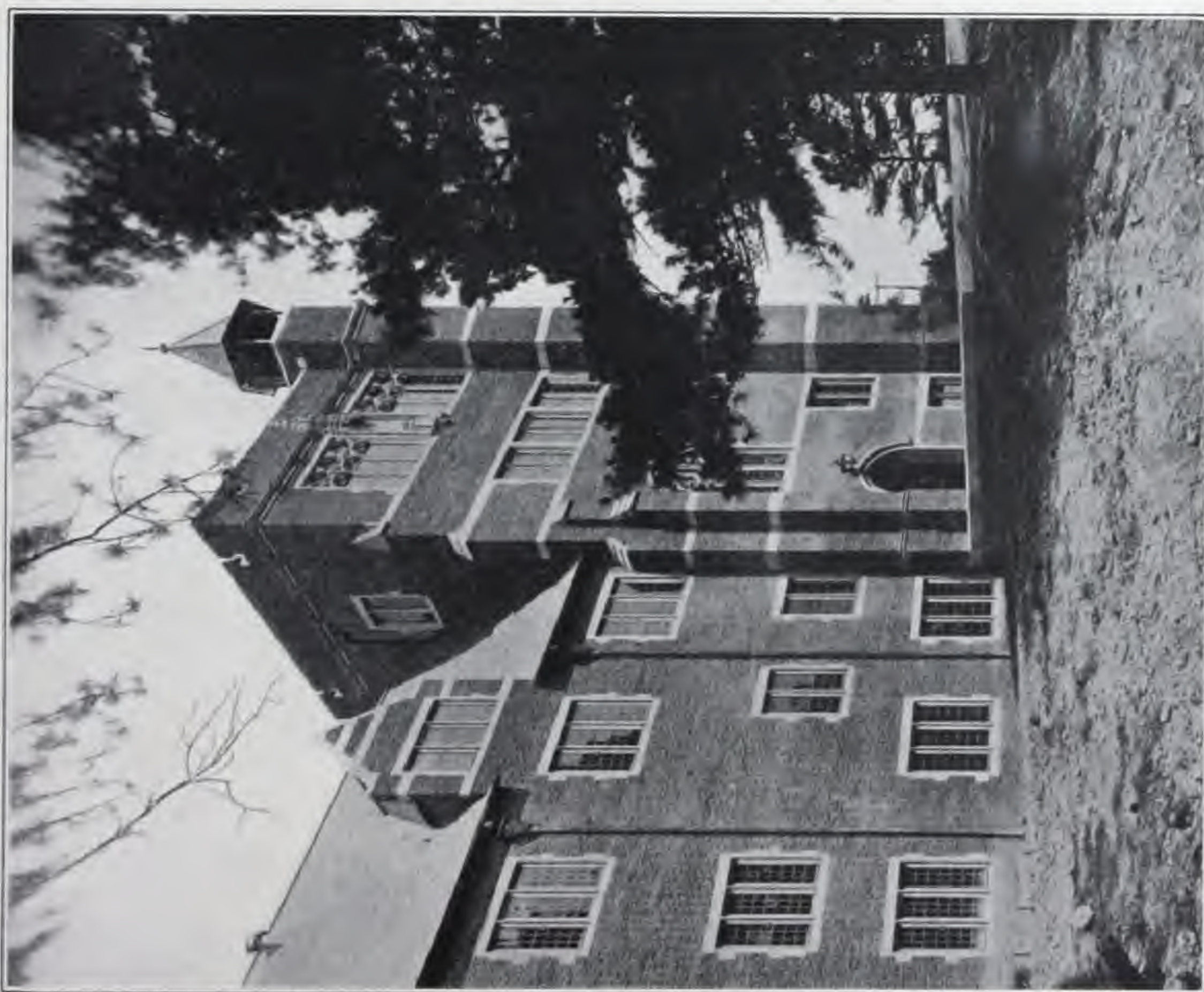


RICHMOND COLLEGE, NORTH ELEVATION, ACADEMIC BUILDING.

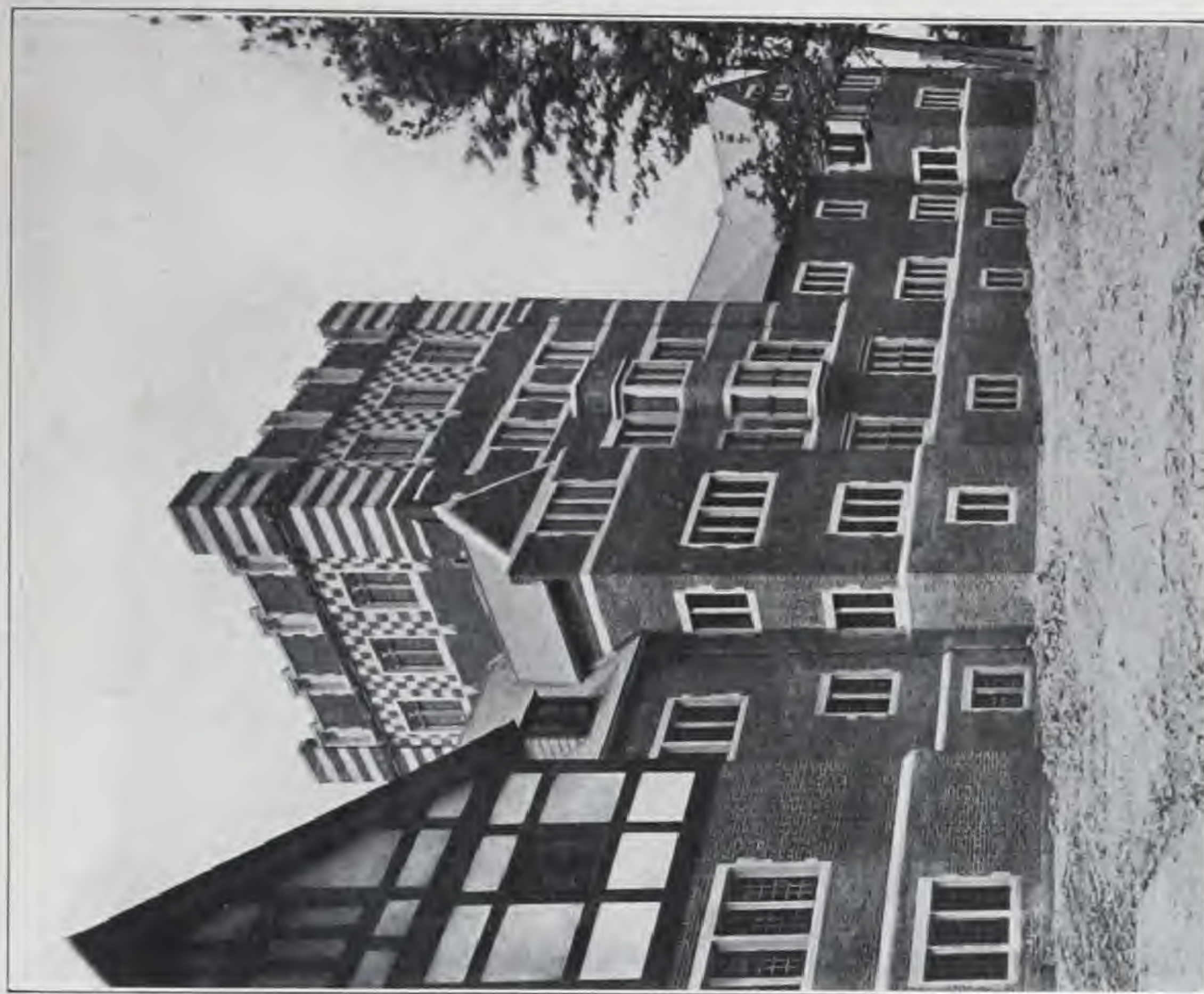
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CCA



RICHMOND COLLEGE, TOWER OF ADMINISTRATION BUILDING.

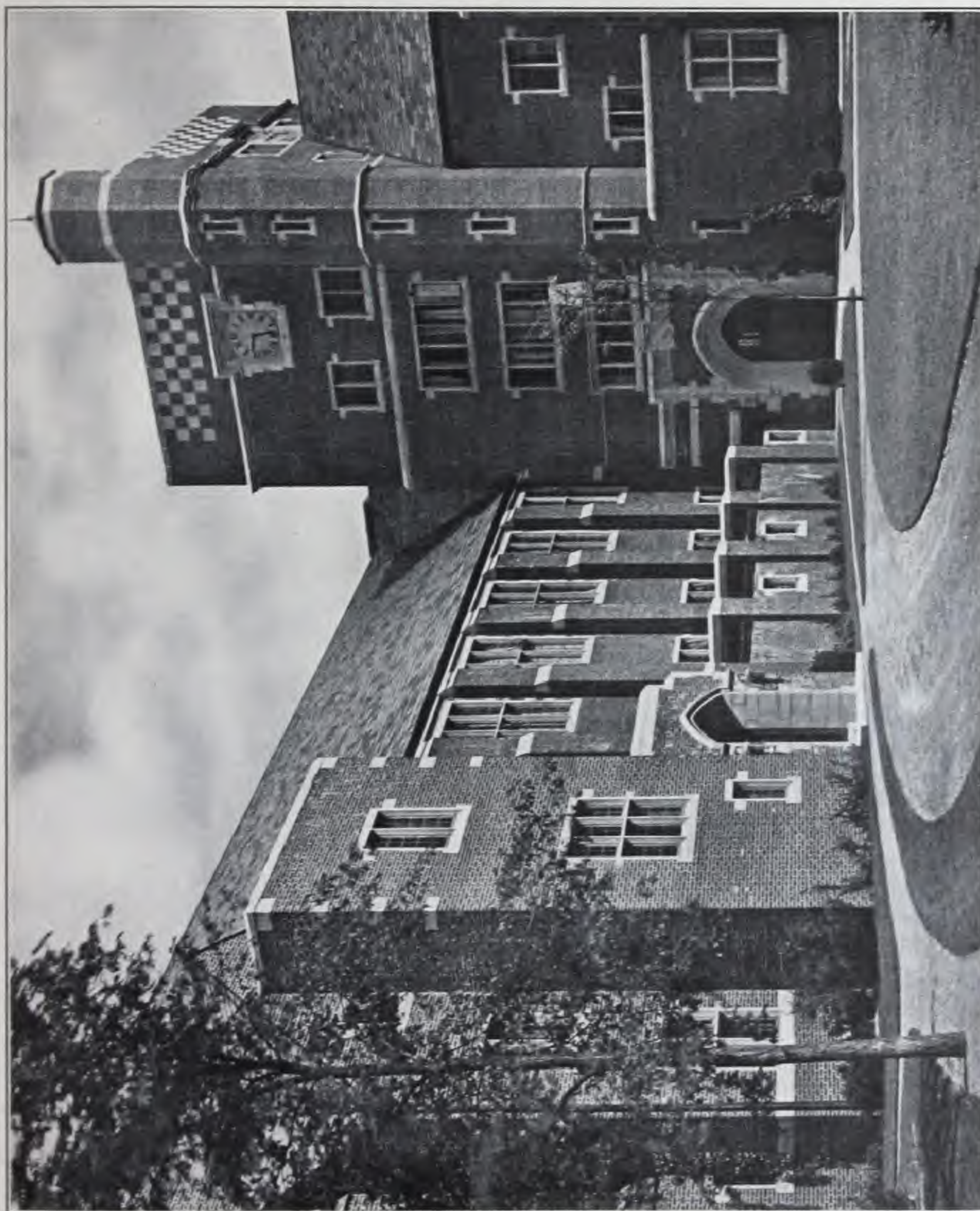


RICHMOND COLLEGE, MEN'S DORMITORY, No. 2.

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CCA



GRAM, GOODHUE & FERGUSON, NEW YORK
ARCHITECTS

TAFT SCHOOL, WATERTOWN, CONN.

This shows but a small section of a large building.

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CCA



MAIN ENTRANCE AND TOWER OF TAFT SCHOOL.

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CCA



ARMORY FOR CHATHAM ARTILLERY, SAVANNAH, GA.

H. W. WITCOVER
ARCHITECT



EMORY AND HENRY COLLEGE, EMORY, VA.

CLARENCE B. KEARFOTT
ARCHITECT

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CCA



HENRY G. MORSE
ARCHITECT

ELECTRICAL ENGINEERING LABORATORY, YALE UNIVERSITY, NEW HAVEN, CONN.

Ashlar of limestone, all stone trim of concrete stone.

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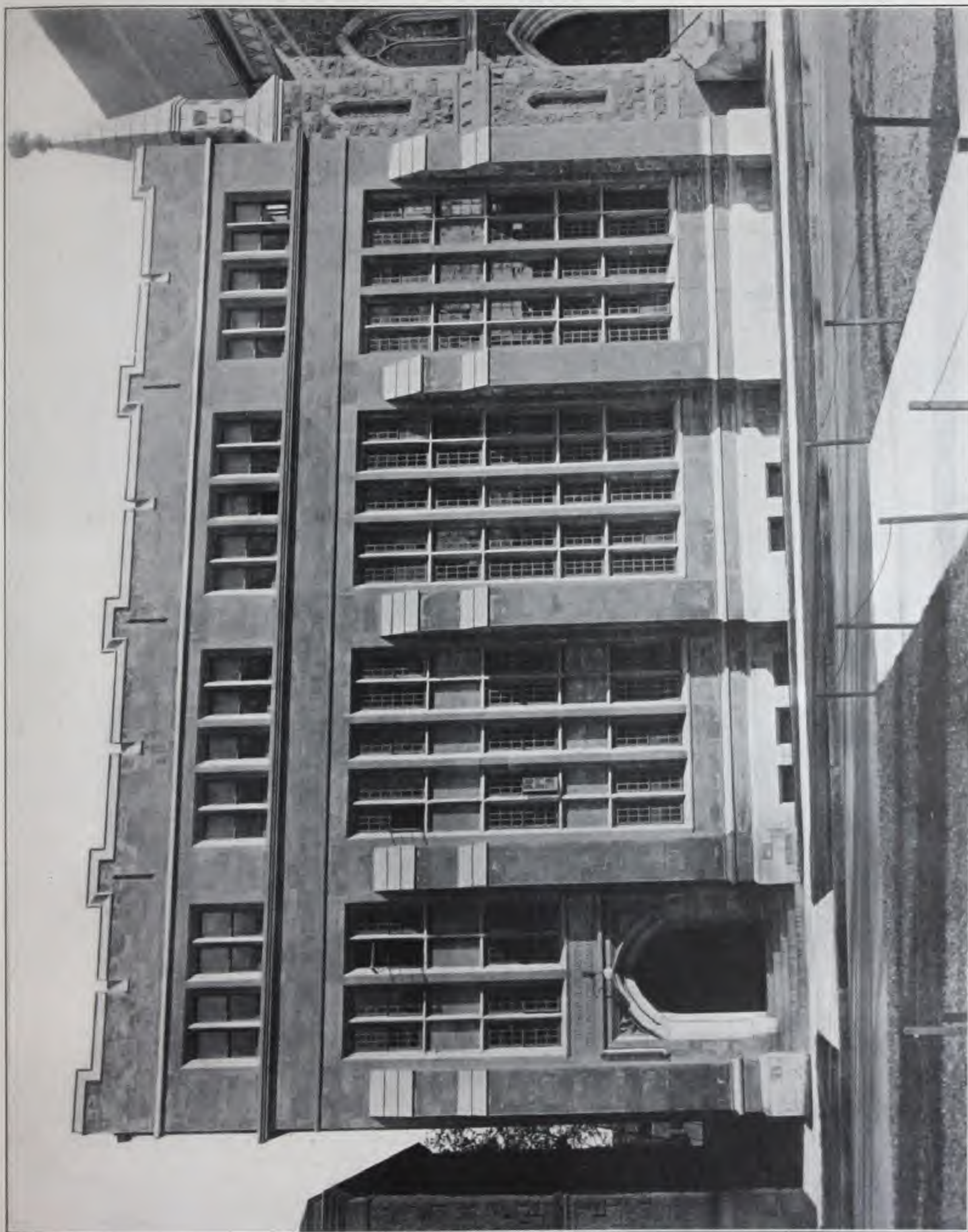


CCA

CHAS. C. HAIGHT
ARCHITECT

MASON LABORATORY, YALE UNIVERSITY, NEW HAVEN, CONN.

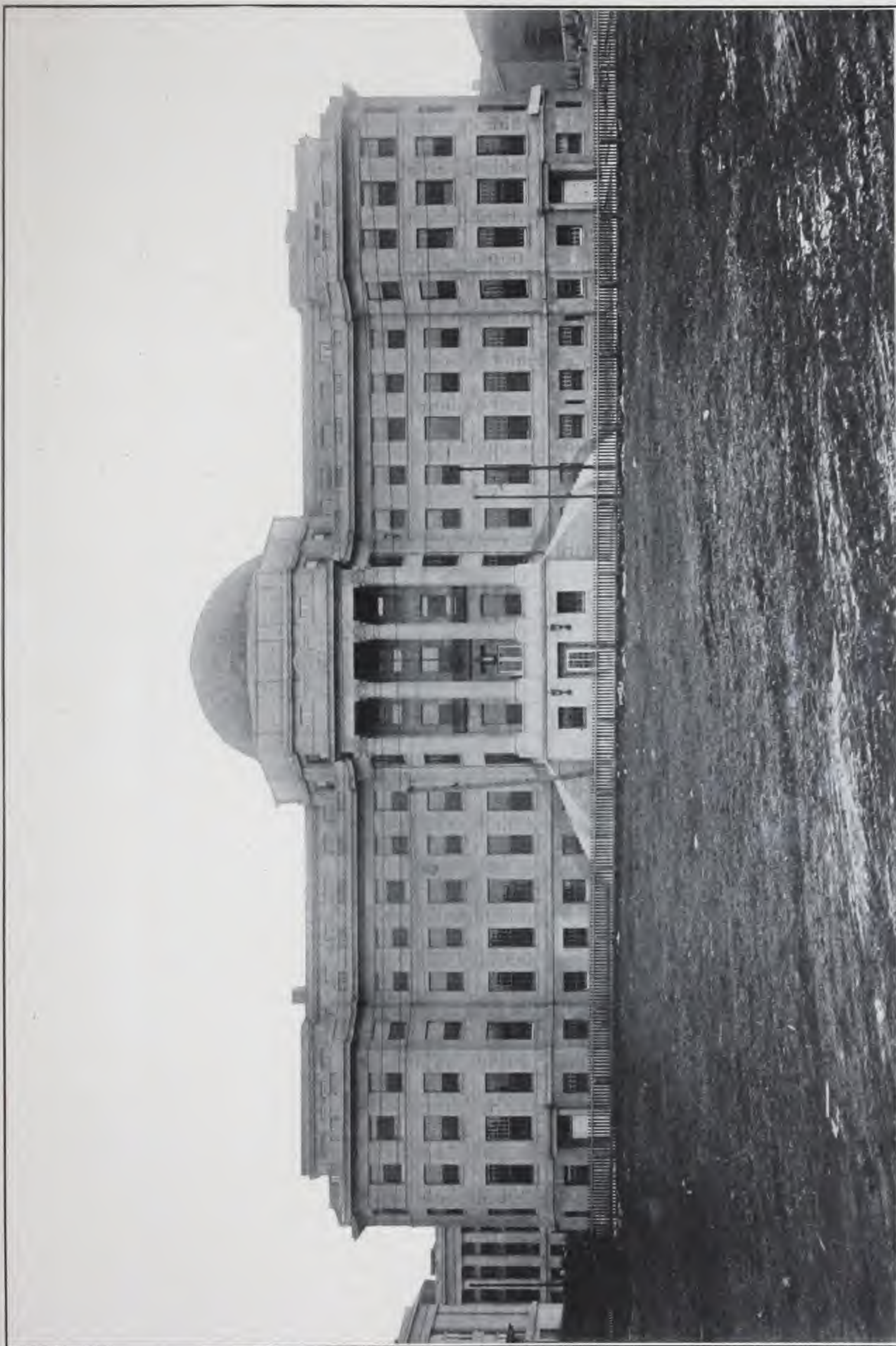
Ashlars of limestone, all stone trim of concrete stone.



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CCA



SHEPLEY, RUTAN & COOLIDGE
ARCHITECTS

CHILDREN'S HOSPITAL, HARVARD MEDICAL SCHOOL GROUP, LONGWOOD AVENUE, BOSTON, MASS.

All stone trim and ashlar, about 2000 tons.

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CCA



PORTICO, CHILDREN'S HOSPITAL.

All ashlar and ornamental work.

SHEPLEY, RUTAN & COOLIDGE
ARCHITECTS

[BLANK PAGE]



CCA



CAP FOR PORTICO, CHILDREN'S HOSPITAL.

Notice the clear lines and sharpness of the detail.



UNIVERSITY PRESS, PRINCETON, N. J

Entire building trimmed with concrete stone.

ERNEST FLAGG
ARCHITECT

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CCA



L. W. ROBINSON, ARCHITECT
DAY BROS. & KLAUDER
ASSOCIATE ARCHITECTS

ISOLATION BUILDING, NEW HAVEN HOSPITAL.

All stone trim, including the entrance, and very heavy cornice, about 400 tons.

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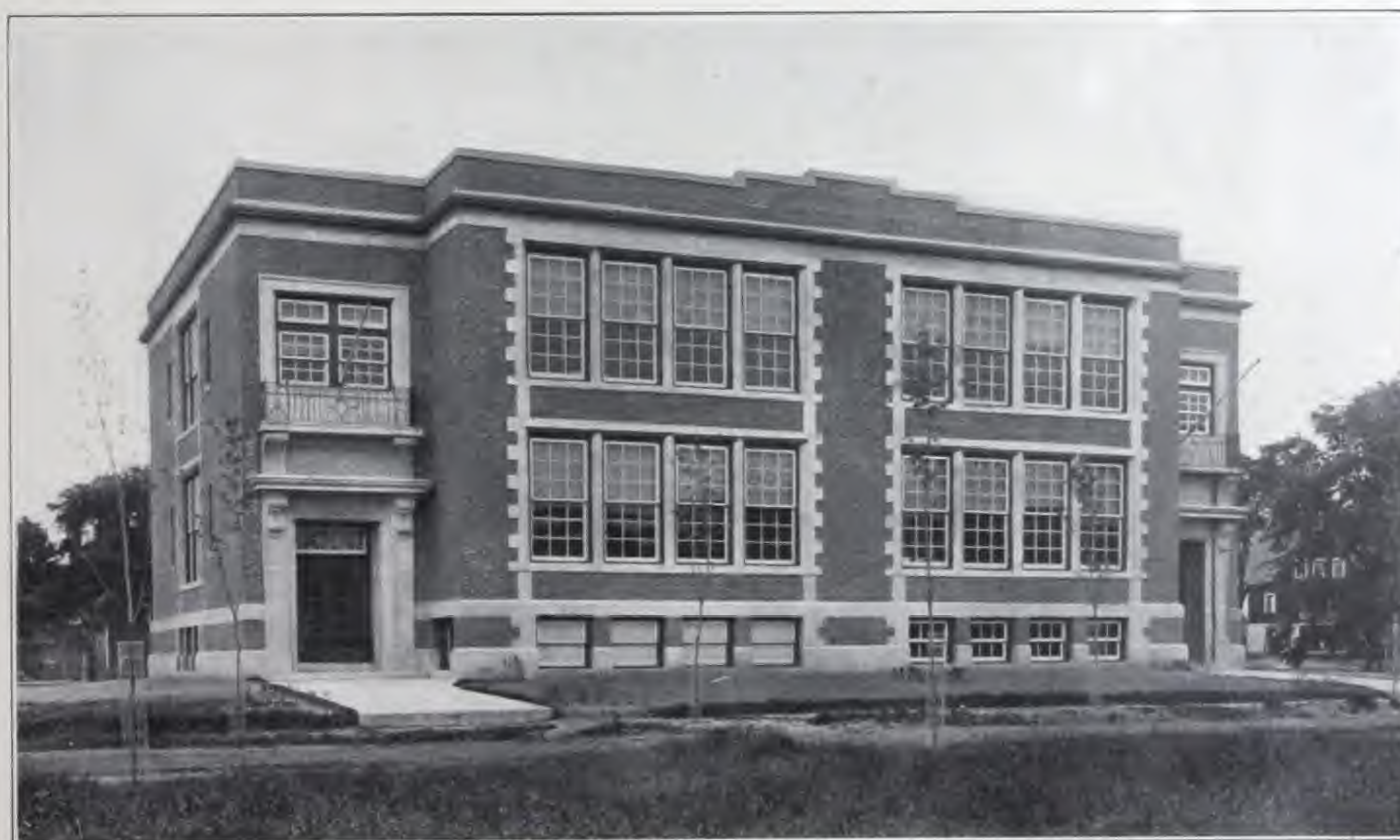


CCA



ABNER GIBB SCHOOL, WESTFIELD, MASS.

DAVIS & BROOKS
ARCHITECTS



THE MOSELEY SCHOOL, WESTFIELD, MASS.

GEORGE E. HAYNES
ARCHITECT

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CCA



HIGH SCHOOL, MERIDEN, CONN.
All trim, including cornice and coping.

GUILBERT & BETELLE
ARCHITECTS



BRIDGHAM SCHOOL, COURTLANDT STREET, PROVIDENCE, R. I.
All trim, over 500 tons.

HOPPIN & FIELD
ARCHITECTS

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CCA



DANTE SCHOOL, CHESTNUT STREET, NEW HAVEN, CONN.

(Main Entrance, Bay.)

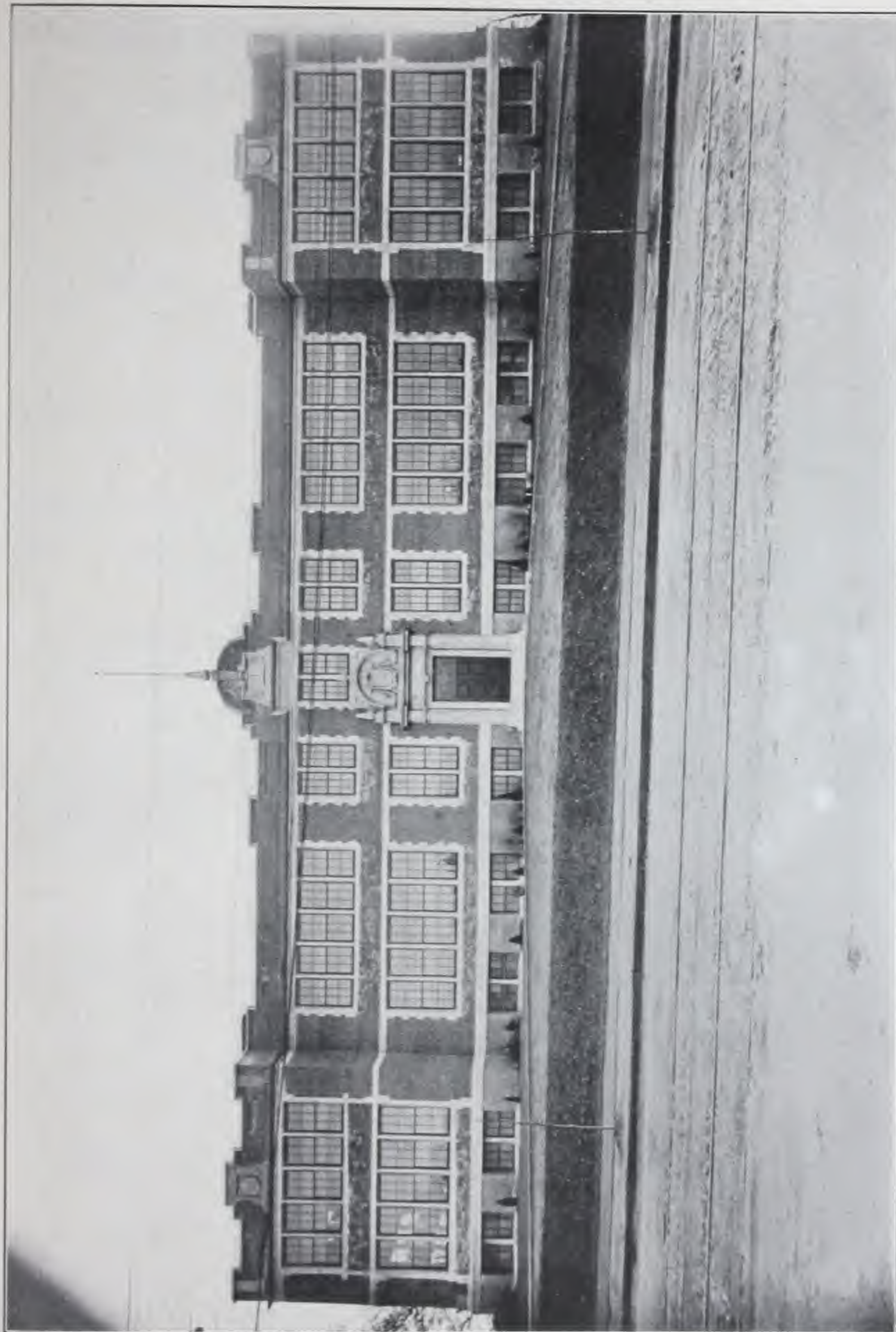
All trim of our stone, about 150 tons.

BROWN & VON BEREN
ARCHITECTS

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CCA



BROWN & VON BEREN
ARCHITECTS

BARNARD SCHOOL, DERBY AVENUE, NEW HAVEN, CONN.

Built in 1913. About 225 tons of concrete stone.

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CCA



BROWN & VON BEREN
ARCHITECTS

CLINTON AVENUE SCHOOL, NEW HAVEN, CONN.

Built in 1911. About 150 tons of concrete stone.

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CCA



LANDING OF THE PILGRIMS.



BATTLE OF LEXINGTON.

HISTORICAL PANELS IN MAIN ENTRANCE, CLINTON AVENUE SCHOOL.

[Photographer experienced great difficulty, owing to bad light.]

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CCA



TRUMAN STREET SCHOOL.

(Main Entrance, Bay.)

All trim of concrete stone. Built in 1910.

BROWN & VON BEREN
ARCHITECTS

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CCA



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CCA



MARTIN & HALL
ARCHITECTS

BRANCH AVENUE SCHOOL, PROVIDENCE, R. I.

All stone trim of concrete stone. Built in 1909.

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CCA



CUDWORTH & WOODWORTH
ARCHITECTS

NORWICH FREE ACADEMY, NORWICH, CONN.

All trim, including entrances and columns, in concrete stone. Built in 1909.

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CCA



E. K. ROSSITER
ARCHITECT

RESIDENCE FOR MISSES JOHNSON AND MISS STEDMAN.

Asylum Avenue, Hartford, Conn.

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CCA



E. K. ROSSITER
ARCHITECT

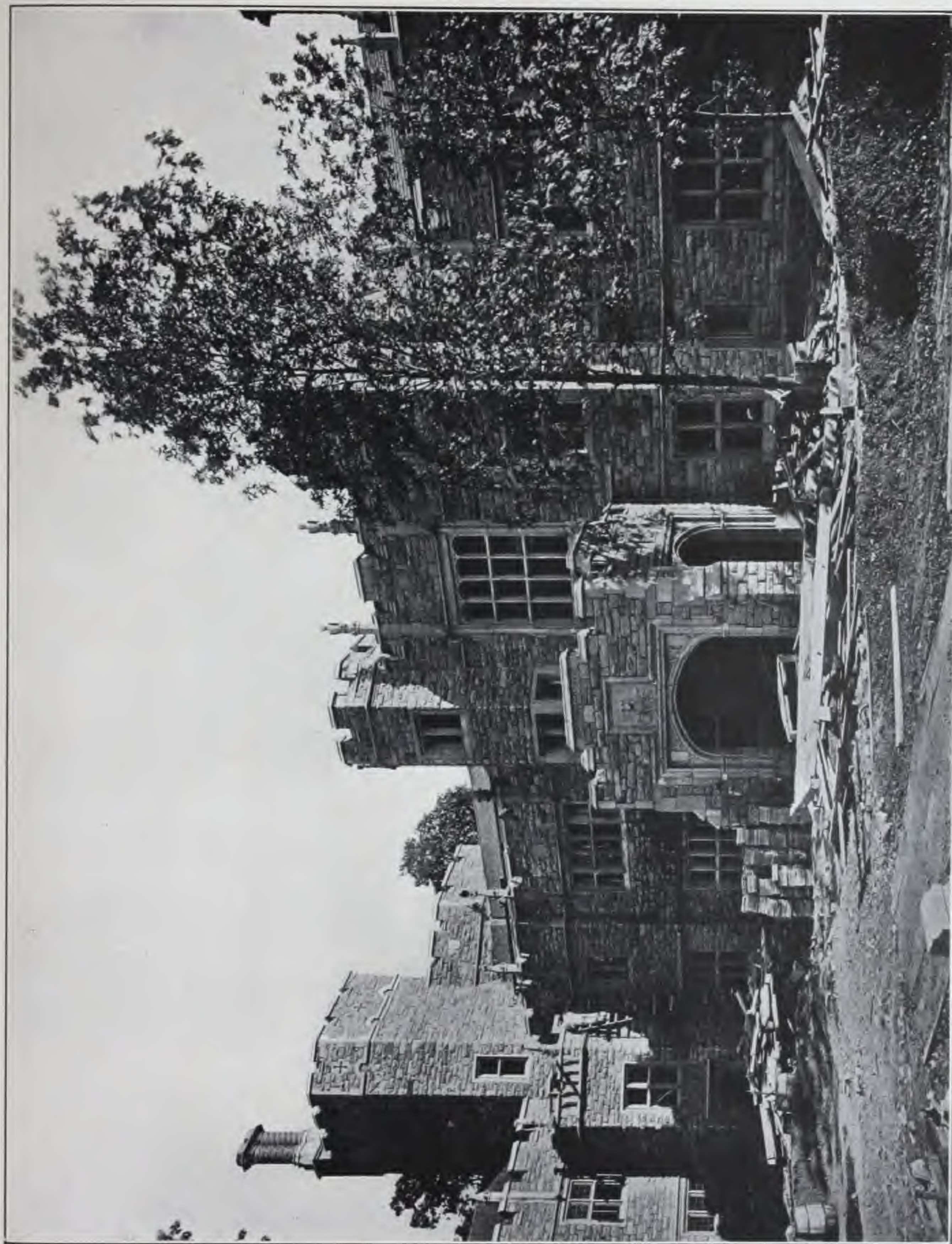
RESIDENCE FOR HERBERT SCOVILLE, ESQ., CHAPINVILLE, CONN.

All trim of concrete stone. Built in 1910.

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CCA



SMITH & MAY
ARCHITECTS

RESIDENCE OF DR. AND MRS. WALTER F. WICKES, GREEN SPRING VALLEY, BALTIMORE, MD.

(May, 1915.)

All trim throughout of concrete stone.

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CCA



GROSVENOR ATTERBURY
ARCHITECT

RESIDENCE OF W. E. MALLEY, ESQ. (of The Edward Malley Co.), NEW HAVEN, CONN.

All stone trim, including concrete lantern over entrance, of concrete stone. Built in 1909.

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CCA



RESIDENCE OF P. B. FOSTER, ESQ., NEW HAVEN, CONN.

All trim of concrete stone. Built in 1908.

HENRY KILLAM MURPHY
RICHARD HENRY DANA, JR., ARCHITECTS

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CCA



C. P. H. GILBERT
ARCHITECT

RESIDENCE OF P. S. STRAUS, ESQ. (of R. H. Macy & Co.), BELFORD, N. J.

Built in 1909.

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CCA



E. K. ROSSITER
ARCHITECT

RESIDENCE OF L. B. CURTIS, ESQ. (Curtis & Curtis), BRIDGEPORT, CONN.

Columns, balustrade and stone trim of concrete stone.

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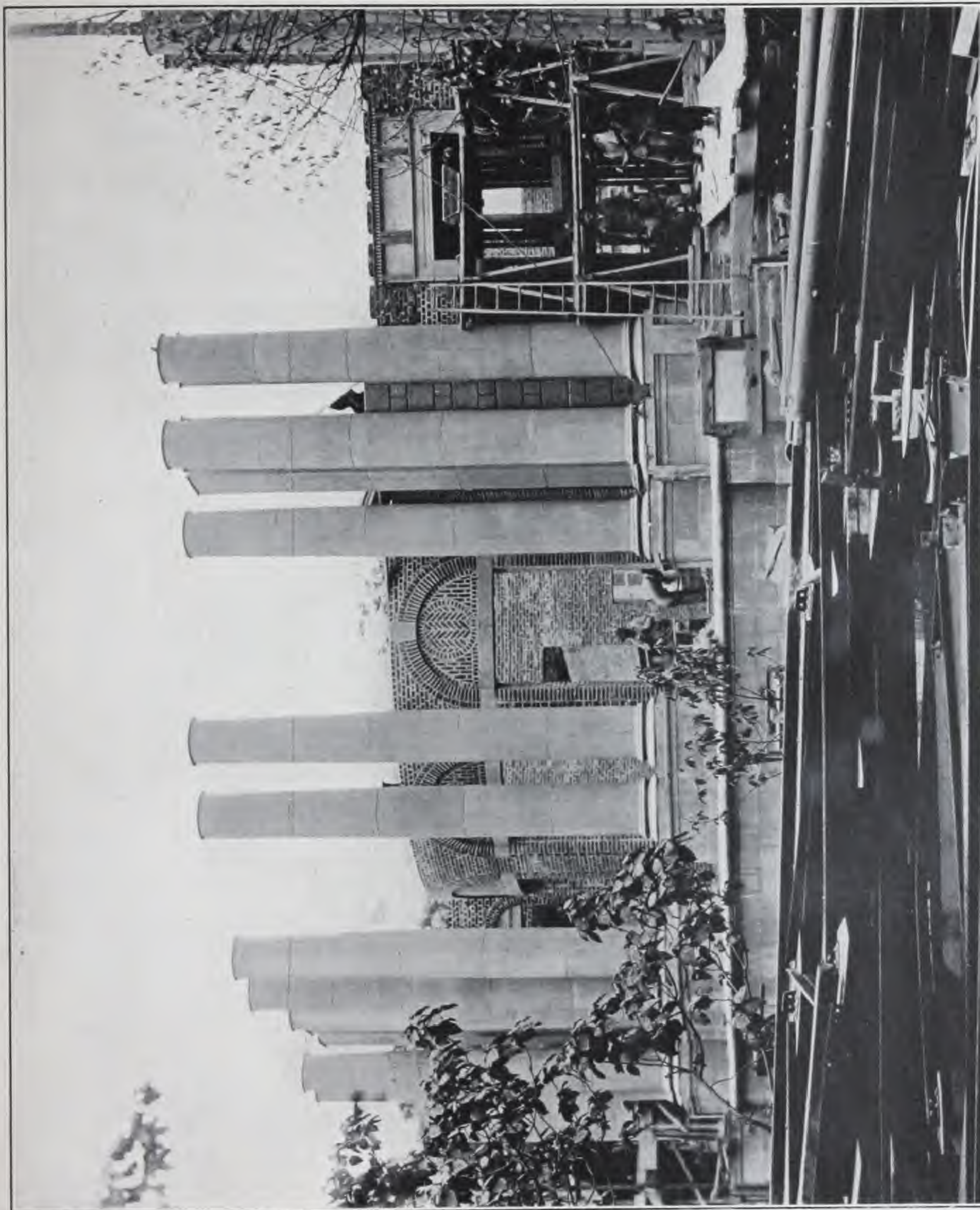
JULIAN MILLARD
ARCHITECT

BLAIR COUNTY MEMORIAL, MASONIC HOME, GRAND LODGE F. & A. M., ELIZABETHTOWN, PA.

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CCA



M. L. & H. G. EMERY
ARCHITECTS

YOUNG MEN'S CHRISTIAN ASSOCIATION, GREENWICH, CONN.

(May, 1915.)

All trim, including 14 large columns and pediments of concrete stone.

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CCA



HENRY L. SHAW & CO.
INDIANAPOLIS

ORNAMENTAL FIGURES, SPRING HOUSE, ESTATE OF STUGHTON & FLETCHER, SOU. INDIANAPOLIS 1901

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CCA



FREEMAN & HASSELMAN
ARCHITECTS

PERGOLA IN THE GARDEN OF WILSON MARSHALL, ESQ., BRIDGEPORT, CONN.

Columns and beams of concrete stone.

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CCA



CHAS. M. ROBINSON
ARCHITECT

BANK OF EDENTON, EDENTON, N. C.

All trim, columns, pilaster and ornamental caps of concrete stone.

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CCA



MASONIC TEMPLE, FAR ROCKAWAY, N. Y.

Columns and stone trim of concrete stone. Built in 1909.

MORRELL SMITH
ARCHITECT

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CCA



SOUTH FACADE, HOTEL WASHINGTON, PANAMA CANAL ZONE

All ornamental work.

CRAW, HENRIK & FERGUSON, NEW YORK
Architects

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CCA



HOTEL WASHINGTON, PANAMA CANAL ZONE

All ornamental work.

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CCA



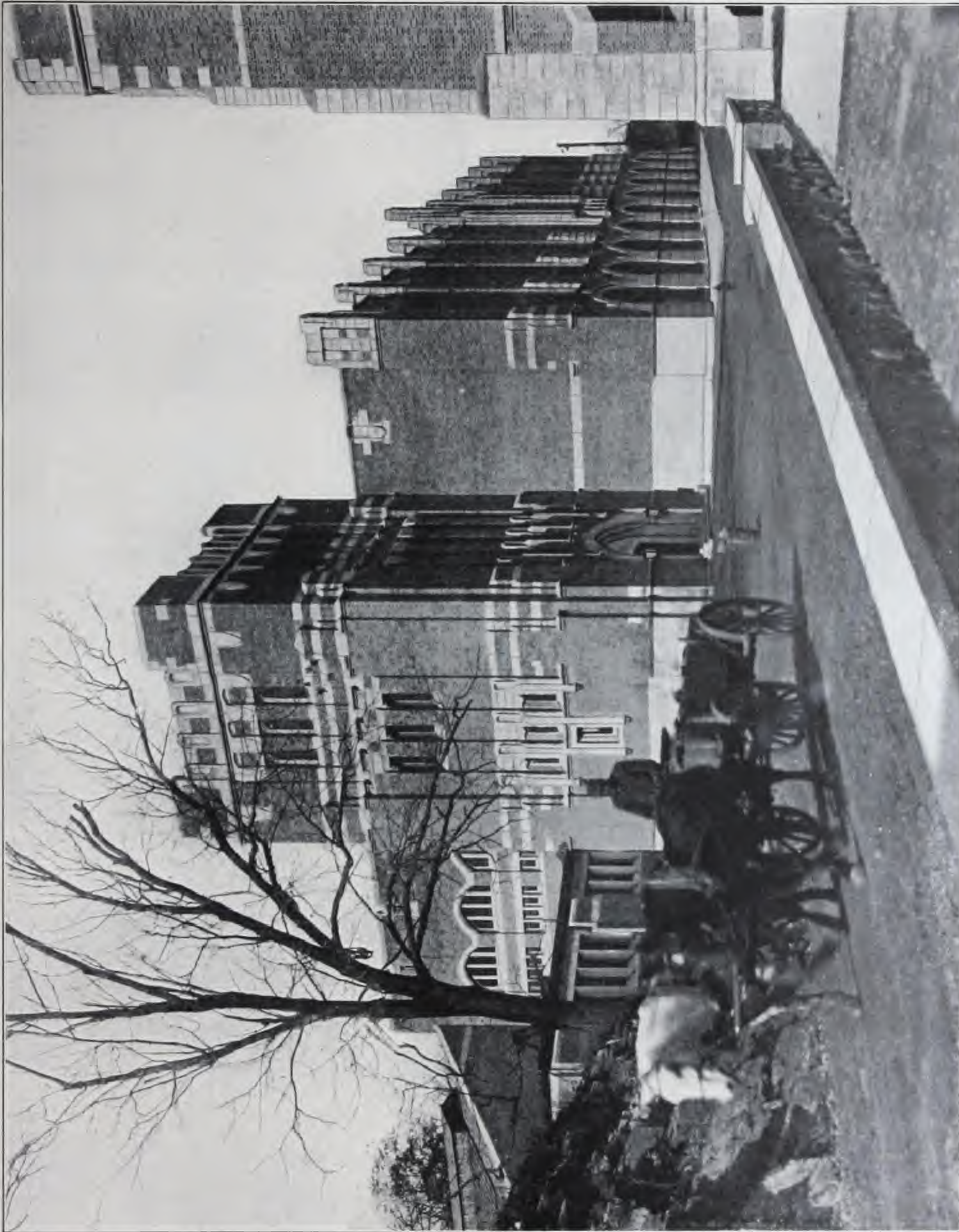
NORTH FACADE, HOTEL WASHINGTON, PANAMA CANAL ZONE.

All ornamental work.

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CCA



CRAM, GOODHUE & FERGUSON, NEW YORK
ARCHITECTS

GYMNASIUM, U. S. MILITARY ACADEMY, WEST POINT, NEW YORK.

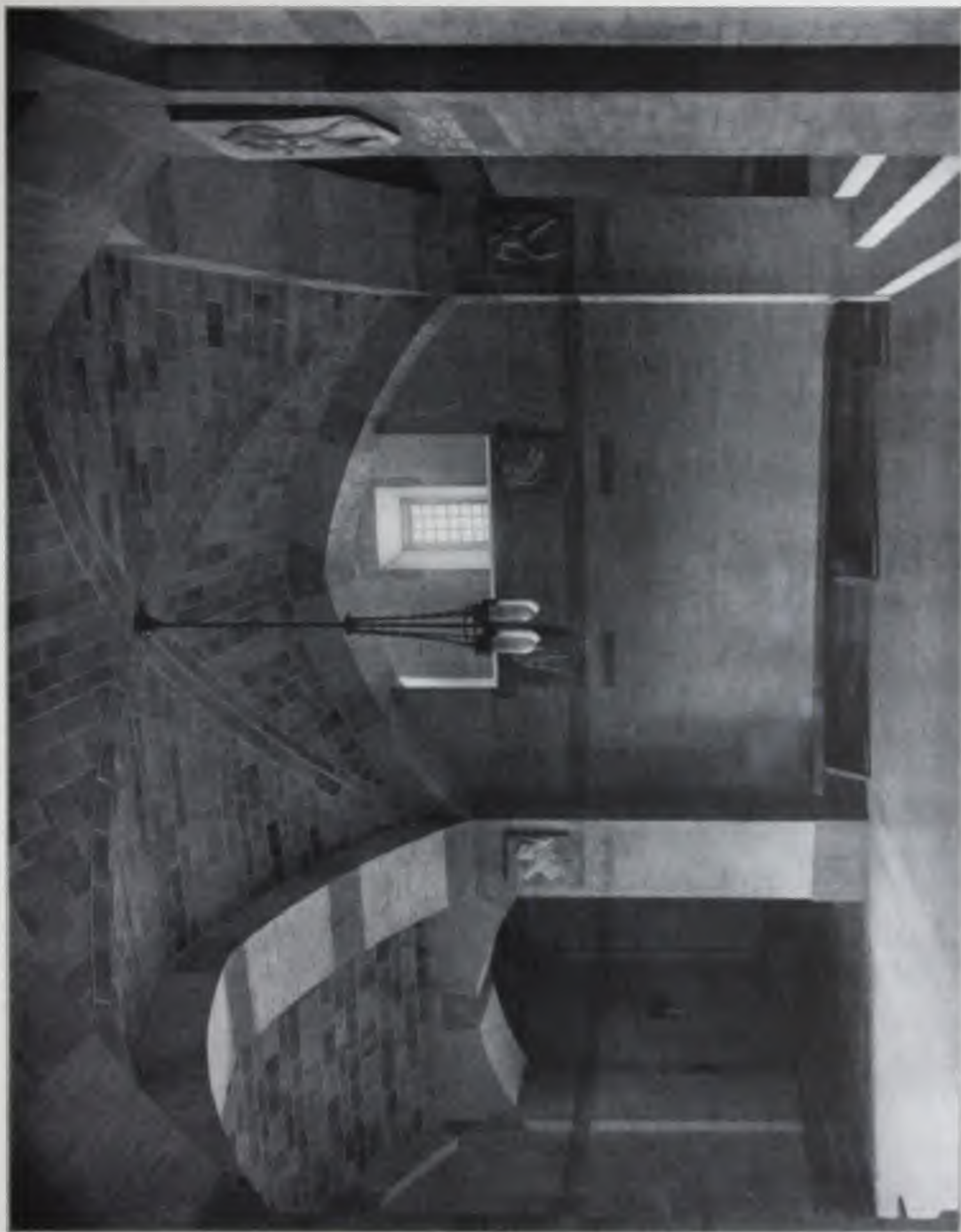
Built in 1910; of brick; first story trim of limestone, all stone trim above it of concrete stone.

LT. COL. J. M. CARSON, JR., Q. M., U. S. A.
IN CHARGE OF CONSTRUCTION

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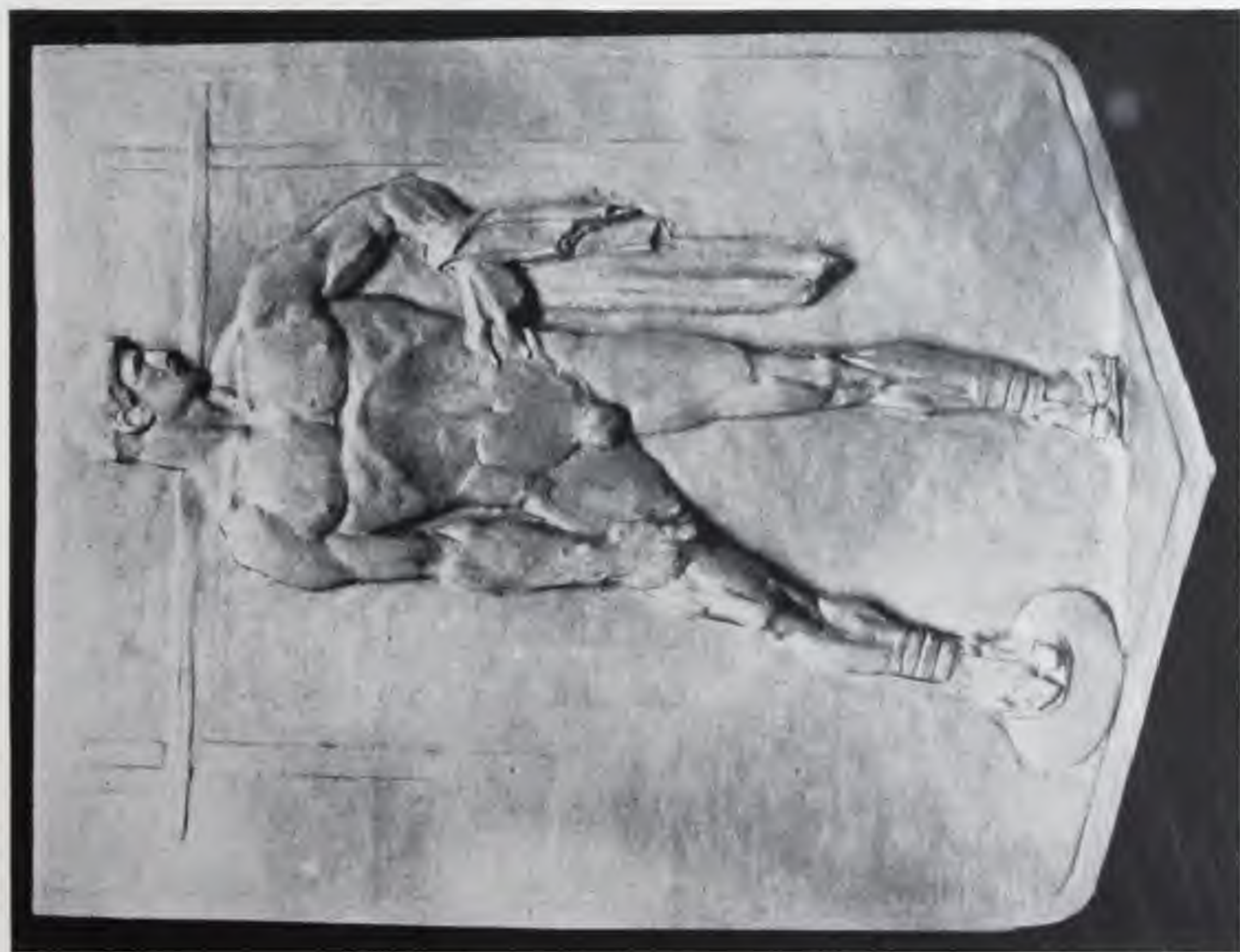
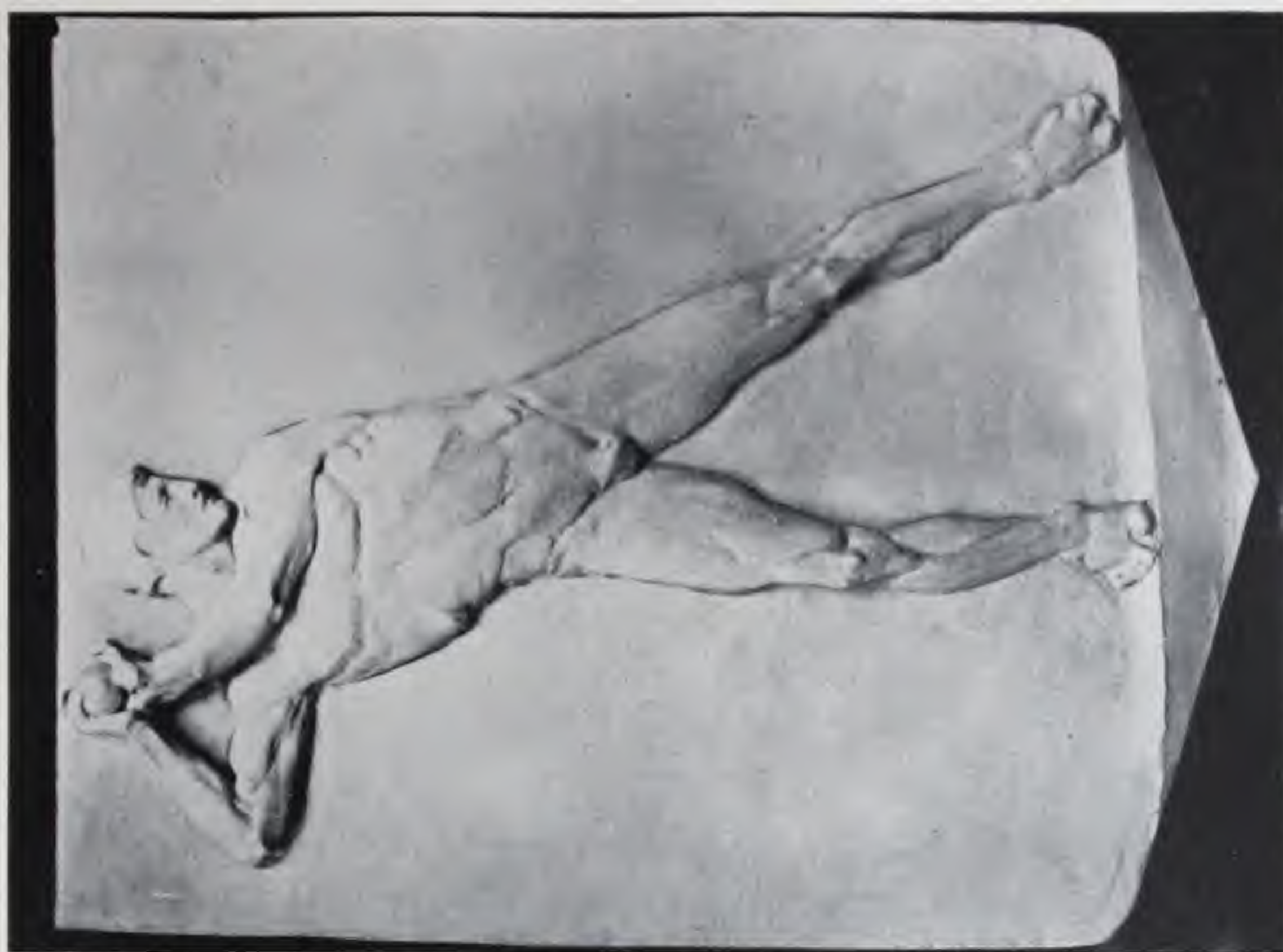
WEST POINT GYMNASIUM.

All main view and recessed panels of adjacent figures of concrete work.

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CCA



CONCRETE PANELS, WEST POINT GYMNASIUM.

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CCA

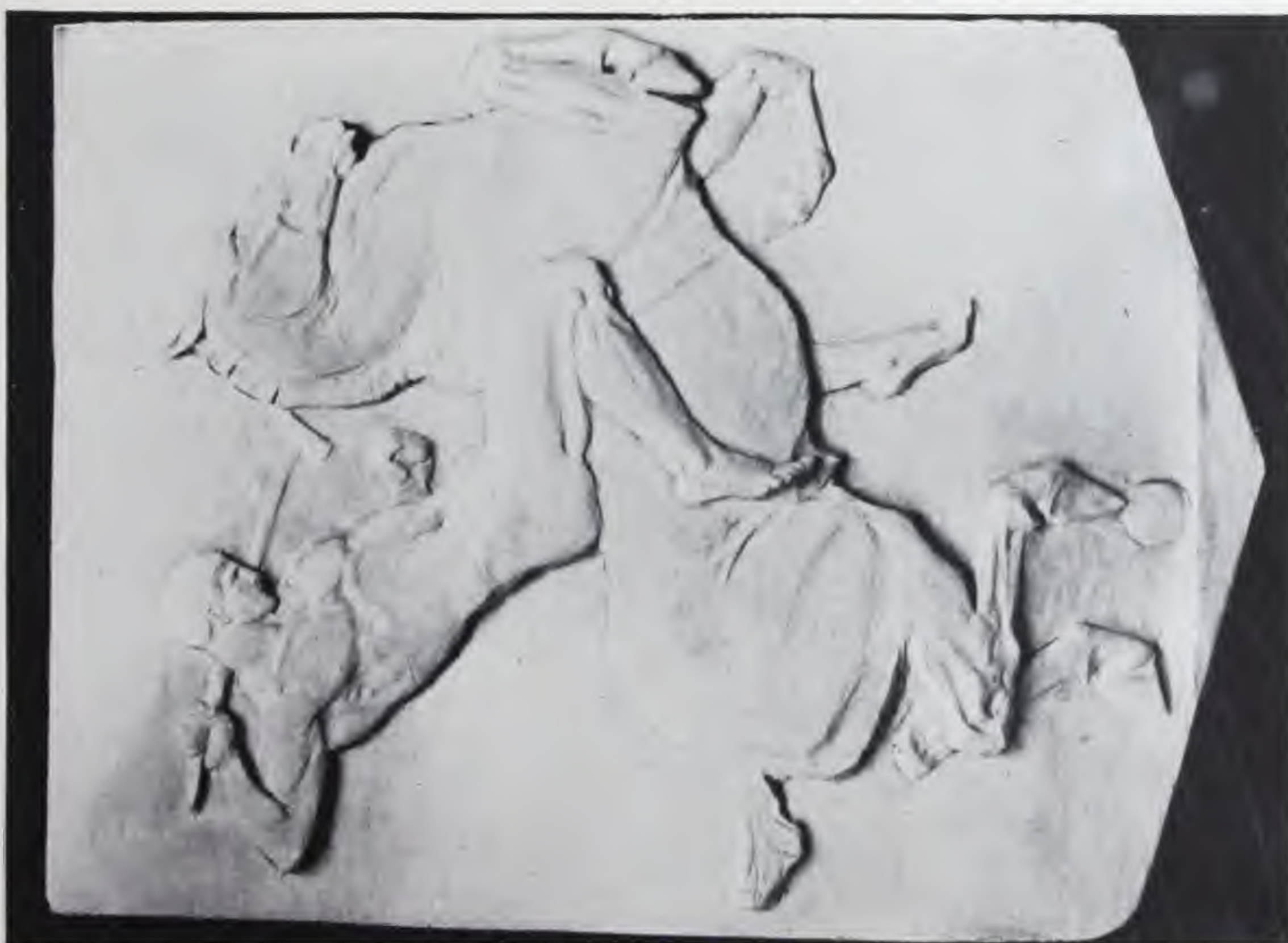


CONCRETE PANELS, WEST POINT GYMNASIUM.

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CONCRETE PANELS, WEST POINT GYMNASIUM

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CCA



CRAM, GOODHUE & FERGUSON, NEW YORK
ARCHITECTS

LT. COL. J. M. CARSON, JR., Q. M., U. S. A.
IN CHARGE OF CONSTRUCTION

ENTRANCE EAST WING, CADET BARRACKS, U. S. MILITARY ACADEMY, WEST POINT, NEW YORK.

Built in 1906; the ashlar of local stone from reservation; all trim above first story, including bay, canopies, and one hundred and three grotesques, of concrete stone.

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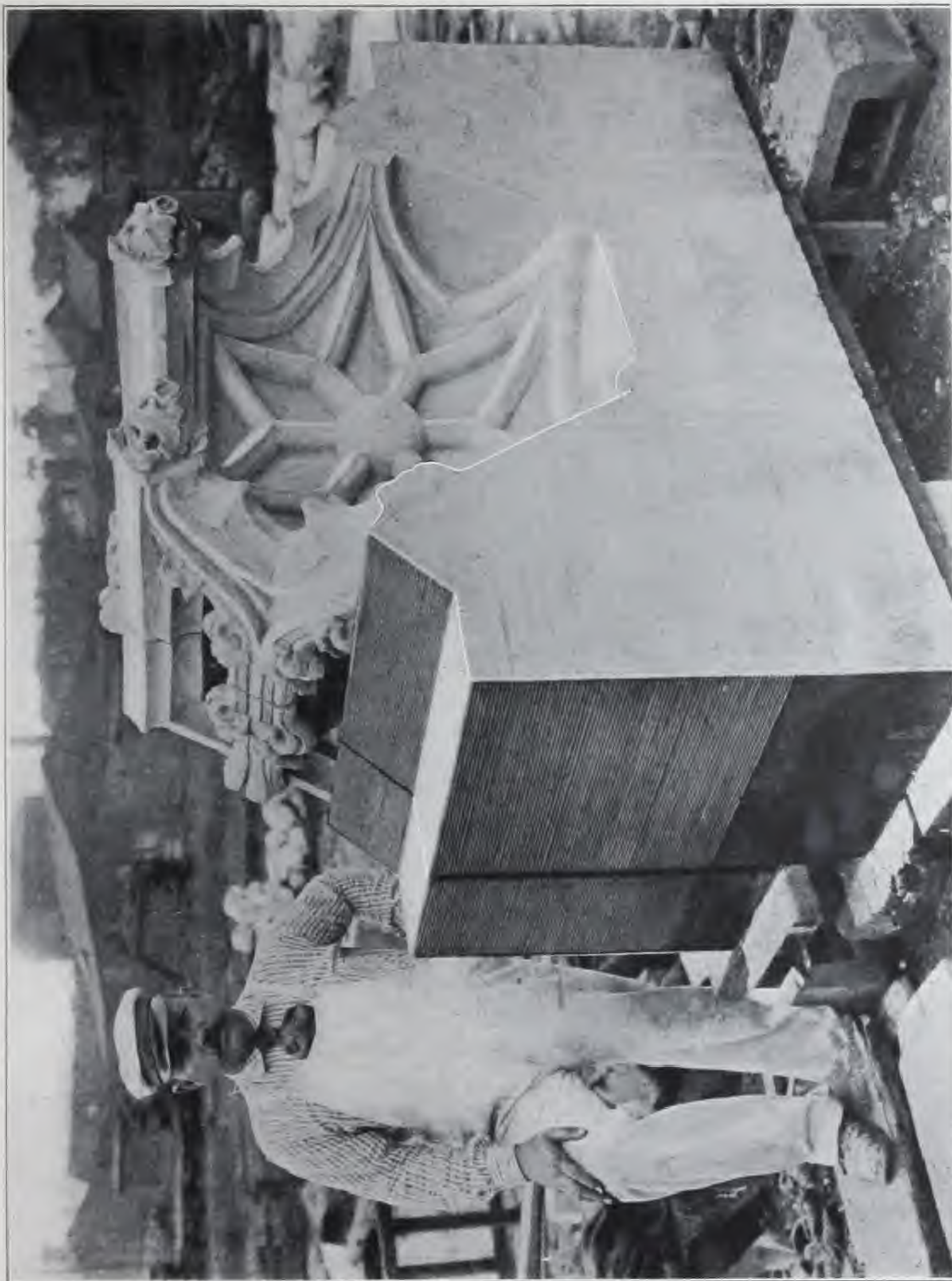


GROTESQUES, EAST WING, CADET BARRACKS.

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CCA



STONE FOR CANOPY, EAST WING, CADET BARRACKS.

This originally was designed in terra cotta, necessitating many joints which each year would have become more assertive.

Bottom stone, in one piece, weighs about 5500 pounds.

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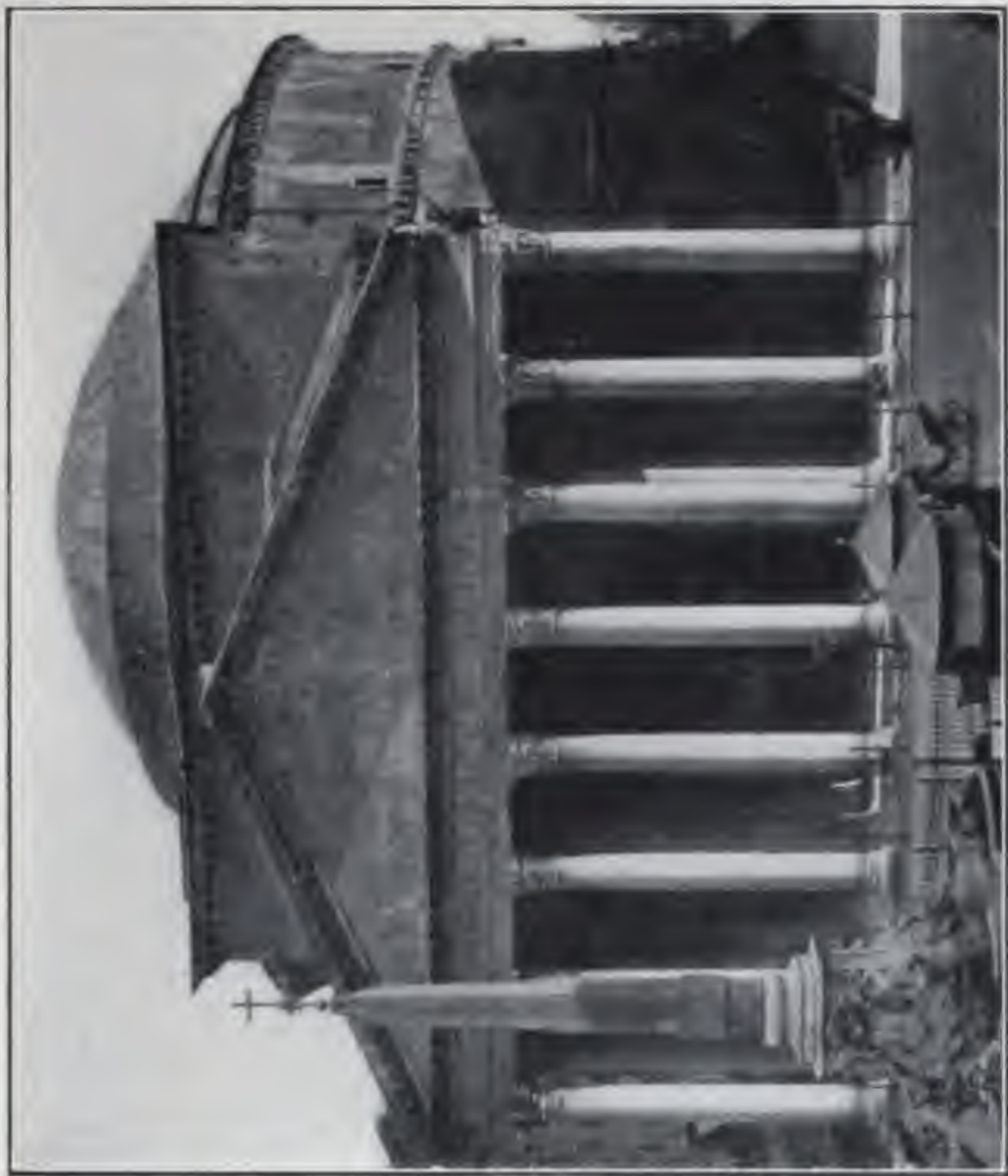


CCA



DWIGHT PLACE CHURCH, NEW HAVEN, CONN.

Built in 1871. Probably the oldest example of a prominent building in concrete blocks in the country. The material is supposed to be of Rosendale cement and sand, and inferior as this is to the present concrete material, the building shows nowhere any signs of surface disintegration, or crumbling, in marked contrast to the sandstone buildings in this city five or ten years later, and in striking contrast to some limestone buildings less than ten years old.



ROMAN PANTHEON

"The construction of concrete, lightly faced with brick, and the dome 143 feet in diameter is practically solid concrete, the familiar system of inset arches being merely one brick deep, and having served as scaffolding during erection."—*Century Dictionary*, Vol. I.V., page 779.

Built B. C. 27. In the seventh century plundered of its bronze tiles placed over the concrete roof, in the eleventh used as a fortress, in the seventeenth robbed of its gilt ceiling over the entrance, weighing 225 tons; though exposed to repeated fires, sometimes flooded by the Tiber, always open to rain through the 28 feet aperture in the roof, shaken by earthquakes, no monument of equal antiquity is anywhere near as well preserved. It has endured through most troublesome ages, and seems likely to last for twenty centuries more, the world's best example of the endurance of concrete, made, it is understood, of volcanic lava (trap rock) aggregates.

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CCA

Tests at Columbia University Laboratory by Prof. Ira H. Woolson, M.E., under direction of the Engineer of Bureau of Buildings, Borough of Manhattan, of Economy Concrete Company's Concrete Stone, October and November, 1909.

1. **TRANSVERSE TEST**, fully matured concrete.

Lintels, 5 x 9; pounds per square inch, 923, 892, 965. Average, 927.

Department requires average, 450. Percentage above requirements,..... **80%**

" " minimum, 350. " " " **155%**

[Other specimens of green concrete did not test as high, but all above Department requirements.]

2. **COMPRESSION TEST**, various sizes, pounds per square inch.

3322, 3382, 4955, 3825, 3668, 4133, 3731, 3832. Average, 3856.

Department requires average, 3000. Percentage above requirements,..... **28%**

" " minimum, 2500. " " " **33%**

3. **ABSORPTION TEST**, after 48 hours, per cent.

9.5, 10.1, 10.8, 7.8, 8.8, 9.2. Average, 9.3%.

Department permits average, 15%. Percentage above requirements,..... **73%**

" " limit, 20%. " " " **81%**

4. **FREEZING AND THAWING**, 20 freezes covering about 60 days.

Decrease in weight, specimen 13, 1.1%	} Average, .033. }	Much above requirements.
" " " " 14, .0%		
" " " " 15, .0%		

Department permits 10%.

[Note by Professor Woolson. "All these specimens were apparently in as good condition after the test as before it began."]

5. **COMPRESSION TEST**, after freezing tests completed.

Specimen 13, 5190 pounds per square inch.

" 14, 5270 " " " "

" 15, 4012 " " " "

6. **FIRE TEST.** Copy of this, as well as any of the above reports, will be sent to anyone interested. No spalling occurred, and edges were sound, and Professor Woolson says in closing, "The specimens stood the test well."

[Approved "for general use in Borough of Manhattan," issued by Building Department, December 16, 1909.]

Comparison with Limestone. Specimens selected at random at West Point, but none under four months, from quarry, by C. T. Willis, Inc.

1. Tests by same laboratory, October 23d, of limestone, 4 x 2 by 7.

Modulus of rupture, 782, 699, 678, 826, 655. Average, 728.

Economy Concrete Co. over limestone (see above),..... **27%**

2. Compression test of limestone, pounds per square inch.

4135, 3535, 4200, 3857, 3188. Average, 3783.

Economy Concrete Co. above limestone,..... **2%**

It is respectfully maintained that these tests, made under conditions as fair and impartial as can be imagined, put beyond question the superiority of our concrete stone over limestone, leaving only the sentimental argument that it is a manufactured article, an argument which would rule out bronze, in which have been produced some of the world's greatest art treasures.







